

# KURPISHEV LOGIC 2

Monograph 6.0

## Complete six-volume set

*classical print-ready cover; no-loss edition; internal  
cross-reference discipline*

$C@C = (e,s) \quad \text{Rep}_i = (R_i, I_i, U_i; D_i)$

$\text{Truth}(\text{Rep}) \Leftrightarrow \text{cr}(U,I;R,D) = -1$

$T_{cs} = T + R \quad \text{PredRep} = (R,I,U;D;L,T,E,S)$

KLT-RBD: source -> work -> extraction -> Rep -> graph -> prediction

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Publication print-ready master set · v4.5 · 2026

Kurpishev Logic 2 · Monograph 6.0 · Volume I · v3.5

# **KURPISHEV LOGIC 2**

**MULTI-VOLUME FUNDAMENTAL MONOGRAPH 6.0**

## **VOLUME I. FOUNDATIONS**

C@C · Reper · lambda-truth · KLT · PN.2 · RBD/RPD

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*Deepened publication edition: classical form, no-loss corpus discipline, clickable internal links to formulas, theorems, articles, and appendices.*

KLT-DOCTRINE-6-0-MONOGRAPH-6-0-TOM-I-DEEPENED-PUBLICATION-RU-EN-v3.5

RU/EN · DOCX · TEX · PDF · 2026

## Abstract

Volume I fixes the foundations of Monograph 6.0: event@state C@C, Reper, Kurpishev Lambda Truth (KLT), PN.2, the initial RBD/RPD apparatus, and the transition map to geometry, physics, anthropology, and computational architecture.

Version v3.5 expands v3.4: it adds a facsimile/source layer, stronger philosophical and phenomenological explanations, a no-loss source apparatus, and a denser internal hyperlink system for formulas, authorial priorities, article-chapters, and appendices.

The volume follows a classical monograph tradition. It is not a list of slogans but a foundation for the multi-volume corpus; each chapter is organized as an article with abstract, formal fixation, table, and transition route.

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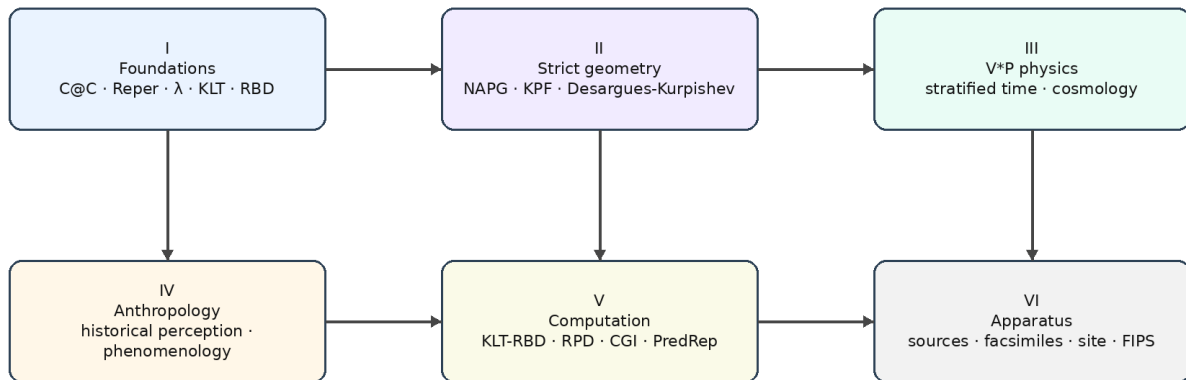
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### v3.5 assembly principles

Principle	Content	Consequence
Classical monograph	slow, complete, source-apparatus based	each chapter as an article
No-loss corpus	sources are not reduced to slogans	text + appendices + facsimile + registry
Clickability	formulas/theorems/articles have anchors	DOCX/TEX/PDF navigation
Phenomenology	strict apparatus is accompanied by lived perception	anthropology is not separated from logic

Монография 6.0 / Monograph 6.0: no-loss publication architecture



Rule: every source becomes either main text, appendix, facsimile, source card, formula anchor, or bibliography entry.

Правило: ни один источник не теряется; он получает место в тексте, приложении, факсимиле, карточке, формуле или библиографии.

Fig. 1. Architecture of the multi-volume Monograph 6.0.

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### Core formulas and clickable anchors

[F-CAC]  $C@C=(e, s)$

Event@state: the minimal unit for fixing reality, document, and perception.

[F-RC]  $C@C \rightarrow R@C@C \rightarrow T_{cs} \rightarrow Rep$

Transition hierarchy from raw fixation to causal and Reper connectivity.

[F-REPER]  $Rep_i=(R_i, I_i, U_i; D_i)$

Reper as a quadruple of reality, idea, universe, and sufficient foundation.

[F-LAMBDA]  $\lambda=(U-R)(I-D)/((U-D)(I-R)); \delta_{truth}=|\lambda+1|$

Kurpishev Lambda Truth: harmonic authorization of truth.

[F-KLT] KLT:  $C@C \rightarrow Rep \rightarrow \lambda \rightarrow status \rightarrow rebuild$

Computable route of verification and rebuilding.

[F-CGI]  $CGI_i=(|T_{hole}^L|+|F_{cent}^{\{XiUpsilon\}}|+|F_{cor}^{\{P@S\}}|+\sum B_{nu})/(r_i u_i+\epsilon)$

Causal gap index linking geometry, limits, and Reper stability.

[F-PN2] PN.2: no canonical simultaneous exact fixation of size and dimension of a packet object

PN.2: authorial uncertainty principle of a packet object.

[F-RBD] source -> work/source unit -> extraction -> Rep -> edge -> graph component -> rebuild

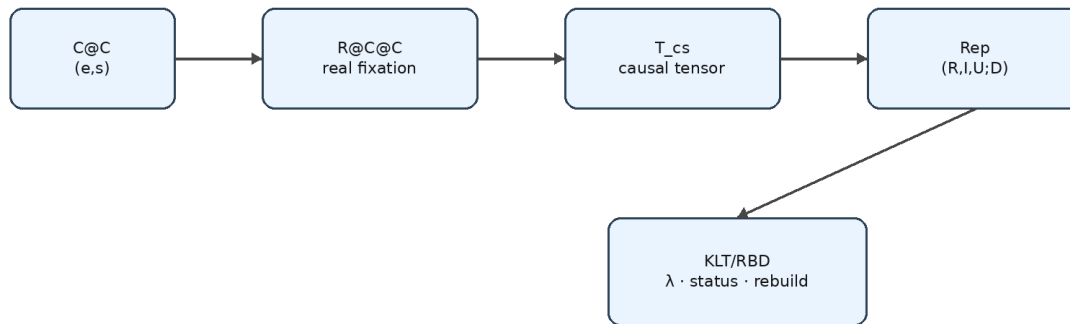
RBD/RPD as computable memory of sources, formulas, and relations.

[F-PREDREP] PredRep=(R,I,U;D;L,T,E,S)

Predictive Reper: extension for limit, temporal, event, and status coordinates.

**Quick links:** [F-CACF-RCF-REPERF-LAMBDAF-KLTF-CGIF-PN2F-RBDF-PREDREP](#)

Tom I: from event@state to clickable truth apparatus



The philosophical problem of truth is translated into a navigable structure of formulas, sources, anchors, and rebuild rules.

Fig. 2. Transition from C@C to Reper and KLT/RBD.

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## Authorial priorities of Ivan B. Kurpishev

ID	Position	Fixation	Route
PN2	ПН.2 / PN.2	Принцип неопределенности Курпишева для пакетного объекта: размер и размерность не фиксируются одновременно в полностью естественном и независимом режиме.	Volume I Appendix A; strict development in Volumes II-III.
DK	Теорема Дезарга-Курпишева / Desargues-Kurpishev theorem	Авторская геометрическая линия: дезаргов контур получает пакетно-реперную интерпретацию и отдельный доказательный статус.	Volume II; cross-link from Volume I.
PFK	Пакетные формализмы Курпишева / Kurpishev packet formalisms	Слой формализмов X*Y, stratified time, V*P, packet incidence, Reper closure and Hodge-related packet structures.	Volumes I-III.
RBD	Reper и RBD / Reper and RBD	Reper как минимальная обратимая структура; RBD как база Reper-узлов, source units,	Volumes I and V.

ID	Position	Fixation	Route
		ребер и статусов.	
KLT	Метод lambda-истинности Курпишева / KLT	Метод структурной проверки истины через гармоническое замыкание Reper-четверки.	Volume I; computational implementation in Volume V.
KLTRBD	KLTRBD	Связка lambda-truth, Reper Database, CGI, source cards, graph components and rebuild protocol.	Volume V; foundations in Volume I.

**[PN2] ПН.2 / PN.2.** Принцип неопределенности Курпишева для пакетного объекта: размер и размерность не фиксируются одновременно в полностью естественном и независимом режиме. Volume I Appendix A; strict development in Volumes II-III.

**[DK] Теорема Дезарга-Курпишева / Desargues-Kurpishev theorem.** Авторская геометрическая линия: дезаргов контур получает пакетно-реперную интерпретацию и отдельный доказательный статус. Volume II; cross-link from Volume I.

**[PFK] Пакетные формализмы Курпишева / Kurpishev packet formalisms.** Слой формализмов  $X*Y$ , stratified time,  $V^*P$ , packet incidence, Reper closure and Hodge-related packet structures. Volumes I-III.

**[RBD] Reper u RBD / Reper and RBD.** Reper как минимальная обратимая структура; RBD как база Reper-узлов, source units, ребер и статусов. Volumes I and V.

**[KLT] Метод lambda-истинности Курпишева / KLT.** Метод структурной проверки истины через гармоническое замыкание Reper-четверки. Volume I; computational implementation in Volume V.

**[KLTRBD] KLT-RBD.** Связка lambda-truth, Reper Database, CGI, source cards, graph components and rebuild protocol. Volume V; foundations in Volume I.

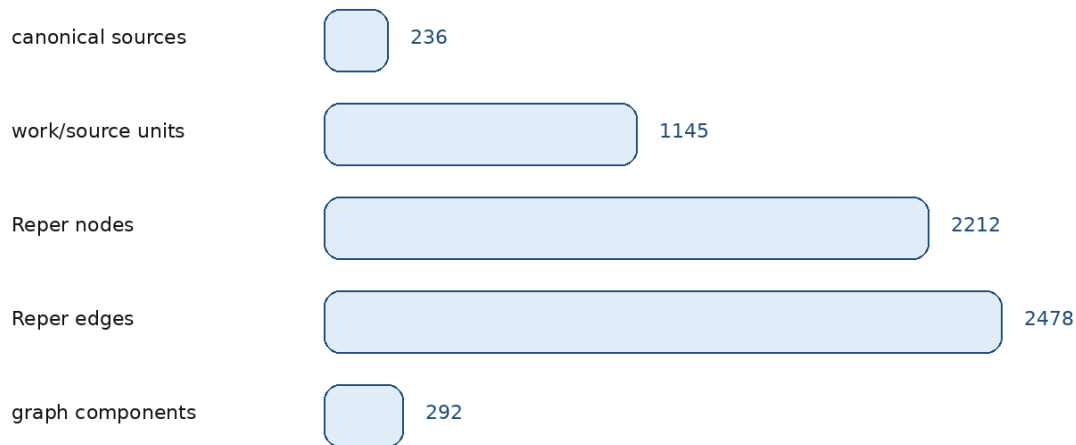
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## Source map: internal corpus and classical tradition

ID	Author	Work	Year	Role
KUR-5.0	И.Б. Курпишев	Монография 5.0: Логика Курпишева	2026	Master-corpus: C@C, Reper, lambda, NAPG, NAPG, $V^*P$ , KLT/RBD.
ТОМ-II	И.Б. Курпишев	Том II: NAPG 3.0, антропология и доказательный корпус	2026	Strict geometry route: NAPG/KPF, Desargues-Kurpishev, Fano/PILOT, Arnold/Bibler support.
ТОМ-III	И.Б. Курпишев	Том III: $V^*P$ , KLT-RBD/RPD, PredRep и приложения	2026	Physics, cosmology, computational and FIPS appendix route.
APP-D	И.Б. Курпишев	Приложение D: единый указатель источников, формул и мыслей	2026	Clickable source/formula/thought index.
APP-E	И.Б. Курпишев	Приложение E: теория RPD/RBD	2026	Corrected scale: 236 sources, 1145 units, 2212 Reper nodes, 2478 edges.
BOURBAKI	N. Bourbaki	Architecture of Mathematics	1948/1960	Mathematics as architecture and unity of theories.
ARNOLD	V.I. Arnold	Geometry of Complex Numbers, Quaternions and Spins	2002	Geometric intuition for algebraic and physical structures.

ID	Author	Work	Year	Role
PONARIN	Я.П. Понарин	Аффинная и проективная геометрия	2009	Projective geometry, transformations, invariants.
RASHEVSKY	П.К. Рашевский	Риманова геометрия и тензорный анализ	1967	Tensor geometry, connection, curvature and physical applications.
BIBLER	В.С. Библер	Кант - Галилей - Кант	1991	Historical forms of reason and philosophical reading discipline.
OIZ-NAR	Т.И. Ойзерман; И.С. Нарский	Теория познания Канта	1991	Epistemology, conditions of knowledge, humanistic task of philosophy.

### RPD/RBD corrected scale: project memory as graph architecture



This scale is used in Volume I as a foundational fact and in Volume V as a computational architecture.

Fig. 3. Corrected scale of RPD/RBD.

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## Article-Chapter 1. Публикационный статус, классическая форма и правило непотери корпуса

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

### 1. Extended exposition

The aim is to make Volume I readable for an international scholarly reader while keeping the authorial Russian terminology visible: C@C, Reper, lambda-truth, KLT, RBD/RPD, PN.2, and KLT-RBD.

The chapter follows the no-loss rule: formulas, source cards, classical references, authorial priority marks and internal anchors are carried forward into the bilingual publication apparatus.

The English text is intentionally conservative and explanatory. It does not simplify the theory into a slogan; it gives a navigable route into the strict mathematical and philosophical volumes.

### 2. Formal fixation

This chapter provides a dispatching and methodological layer; strict mathematical details are transferred to later volumes without losing references.

### 3. Table

Layer	Function	Route
Concept	short explanation	Volume I
Formula	formal anchor	Appendix A
Source	bibliographic support	Appendix C
Next volume	strict development	Volumes II-V

### 4. Phenomenological and anthropological comment

The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

### 5. Sources and transitions

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

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**Article-Chapter 2. C@C: событие@состояние и феноменология факта**

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

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**1. Extended exposition**

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**2. Formal fixation**

[REF\_CH02] C@C=(e,s); C@C -> R@C@C -> T\_cs -> Rep  
Pre-Reper chain of object fixation.

**3. Table**

Layer	Function	Route
Concept	short explanation	Volume I
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**5. Sources and transitions**

**Source route:** KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.

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## Article-Chapter 3. Reper: реальность, идея, универсум и достаточное

### ОСНОВАНИЕ

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

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#### 2. Formal fixation

[REF\_CH03] Rep=(R,I,U;D)  
Minimal reversible structure.

#### 3. Table

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#### 5. Sources and transitions

**Source route:** KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.

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## Article-Chapter 4. Lambda-истинность Курпишева и KLT

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

### 1. Extended exposition

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### 2. Formal fixation

[REF\_CH04]  $\lambda = ((U-R)(I-D))/((U-D)(I-R))$ ; truth iff  $\lambda = -1$   
Harmonic KLT condition.

### 3. Table

Layer	Function	Route
Concept	short explanation	Volume I
Formula	formal anchor	Appendix A
Source	bibliographic support	Appendix C
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### 4. Phenomenological and anthropological comment

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### 5. Sources and transitions

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

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## Article-Chapter 5. ПН.2: принцип неопределенности Курпишева

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

### 1. Extended exposition

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### 2. Formal fixation

[REF\_CH05] PN.2: no canonical simultaneous exact fixation of size and dimension  
Packet uncertainty.

### 3. Table

Layer	Function	Route
Concept	short explanation	Volume I
Formula	formal anchor	Appendix A
Source	bibliographic support	Appendix C
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### 5. Sources and transitions

**Source route:** KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.

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**Article-Chapter 6. KLT-RBD/RPD: реперная база и вычислимая память****ИСТОЧНИКОВ**

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

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**2. Formal fixation**

[REF\_CH06] source -> work/source unit -> extraction -> Rep -> graph -> rebuild  
RBD/RPD extraction route.

**3. Table**

<b>Layer</b>	<b>Function</b>	<b>Route</b>
Concept	short explanation	Volume I
Formula	formal anchor	Appendix A
Source	bibliographic support	Appendix C
Next volume	strict development	Volumes II-V

**4. Phenomenological and anthropological comment**

The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

**5. Sources and transitions**

**Source route:** KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.

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## Article-Chapter 7. Классическая традиция: Бурбаки, Кант, Арнольд, Понарин, Рашевский, Библер

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

### 1. Extended exposition

The aim is to make Volume I readable for an international scholarly reader while keeping the authorial Russian terminology visible: C@C, Reper, lambda-truth, KLT, RBD/RPD, PN.2, and KLT-RBD.

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### 2. Formal fixation

This chapter provides a dispatching and methodological layer; strict mathematical details are transferred to later volumes without losing references.

### 3. Table

Layer	Function	Route
Concept	short explanation	Volume I
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Source	bibliographic support	Appendix C
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### 4. Phenomenological and anthropological comment

The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

### 5. Sources and transitions

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

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## Article-Chapter 8. Внутренние кликабельные ссылки как часть математического аппарата

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

### 1. Extended exposition

The aim is to make Volume I readable for an international scholarly reader while keeping the authorial Russian terminology visible: C@C, Reper, lambda-truth, KLT, RBD/RPD, PN.2, and KLT-RBD.

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Layer	Function	Route
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### 4. Phenomenological and anthropological comment

The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

### 5. Sources and transitions

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

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## Article-Chapter 11. Приложение-переход к ПН.2 как строгому принципу пакетной геометрии

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

### 1. Extended exposition

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The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

### 5. Sources and transitions

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

[⇐ Contents / Оглавление](#)

## Article-Chapter 12. Теорема Дезарга-Курпишева как опорный мост к Тому II

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

### 1. Extended exposition

The aim is to make Volume I readable for an international scholarly reader while keeping the authorial Russian terminology visible: C@C, Reper, lambda-truth, KLT, RBD/RPD, PN.2, and KLT-RBD.

The chapter follows the no-loss rule: formulas, source cards, classical references, authorial priority marks and internal anchors are carried forward into the bilingual publication apparatus.

The English text is intentionally conservative and explanatory. It does not simplify the theory into a slogan; it gives a navigable route into the strict mathematical and philosophical volumes.

### 2. Formal fixation

This chapter provides a dispatching and methodological layer; strict mathematical details are transferred to later volumes without losing references.

### 3. Table

Layer	Function	Route
Concept	short explanation	Volume I
Formula	formal anchor	Appendix A
Source	bibliographic support	Appendix C
Next volume	strict development	Volumes II-V

### 4. Phenomenological and anthropological comment

The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

### 5. Sources and transitions

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

[⇐ Contents / Оглавление](#)

## Article-Chapter 13. Пакетные формализмы Курпишева как язык всей Монографии 6.0

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

### 1. Extended exposition

The aim is to make Volume I readable for an international scholarly reader while keeping the authorial Russian terminology visible: C@C, Reper, lambda-truth, KLT, RBD/RPD, PN.2, and KLT-RBD.

The chapter follows the no-loss rule: formulas, source cards, classical references, authorial priority marks and internal anchors are carried forward into the bilingual publication apparatus.

The English text is intentionally conservative and explanatory. It does not simplify the theory into a slogan; it gives a navigable route into the strict mathematical and philosophical volumes.

### 2. Formal fixation

This chapter provides a dispatching and methodological layer; strict mathematical details are transferred to later volumes without losing references.

### 3. Table

Layer	Function	Route
Concept	short explanation	Volume I
Formula	formal anchor	Appendix A
Source	bibliographic support	Appendix C
Next volume	strict development	Volumes II-V

### 4. Phenomenological and anthropological comment

The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

### 5. Sources and transitions

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

[⇐ Contents / Оглавление](#)

## Article-Chapter 14. Метод lambda-истинности KLT как дисциплина чтения и пересборки

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

### 1. Extended exposition

The aim is to make Volume I readable for an international scholarly reader while keeping the authorial Russian terminology visible: C@C, Reper, lambda-truth, KLT, RBD/RPD, PN.2, and KLT-RBD.

The chapter follows the no-loss rule: formulas, source cards, classical references, authorial priority marks and internal anchors are carried forward into the bilingual publication apparatus.

The English text is intentionally conservative and explanatory. It does not simplify the theory into a slogan; it gives a navigable route into the strict mathematical and philosophical volumes.

### 2. Formal fixation

This chapter provides a dispatching and methodological layer; strict mathematical details are transferred to later volumes without losing references.

### 3. Table

Layer	Function	Route
Concept	short explanation	Volume I
Formula	formal anchor	Appendix A
Source	bibliographic support	Appendix C
Next volume	strict development	Volumes II-V

### 4. Phenomenological and anthropological comment

The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

### 5. Sources and transitions

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

[⇐ Contents / Оглавление](#)

**Article-Chapter 15. Реперная база RBD как новая форма научной памяти**

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

**1. Extended exposition**

The aim is to make Volume I readable for an international scholarly reader while keeping the authorial Russian terminology visible: C@C, Reper, lambda-truth, KLT, RBD/RPD, PN.2, and KLT-RBD.

The chapter follows the no-loss rule: formulas, source cards, classical references, authorial priority marks and internal anchors are carried forward into the bilingual publication apparatus.

The English text is intentionally conservative and explanatory. It does not simplify the theory into a slogan; it gives a navigable route into the strict mathematical and philosophical volumes.

**2. Formal fixation**

This chapter provides a dispatching and methodological layer; strict mathematical details are transferred to later volumes without losing references.

**3. Table**

Layer	Function	Route
Concept	short explanation	Volume I
Formula	formal anchor	Appendix A
Source	bibliographic support	Appendix C
Next volume	strict development	Volumes II-V

**4. Phenomenological and anthropological comment**

The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

**5. Sources and transitions**

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

[⇐ Contents / Оглавление](#)

**Article-Chapter 16. Переход к Тому II: от основания к строгой геометрии**

**Abstract.** This English chapter preserves the structure of the Russian master text. It is a publication counterpart rather than a replacement of the Russian source layer.

**Internal links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2RBDKLTDK](#)

**1. Extended exposition**

The aim is to make Volume I readable for an international scholarly reader while keeping the authorial Russian terminology visible: C@C, Reper, lambda-truth, KLT, RBD/RPD, PN.2, and KLT-RBD.

The chapter follows the no-loss rule: formulas, source cards, classical references, authorial priority marks and internal anchors are carried forward into the bilingual publication apparatus.

The English text is intentionally conservative and explanatory. It does not simplify the theory into a slogan; it gives a navigable route into the strict mathematical and philosophical volumes.

**2. Formal fixation**

This chapter provides a dispatching and methodological layer; strict mathematical details are transferred to later volumes without losing references.

**3. Table**

Layer	Function	Route
Concept	short explanation	Volume I
Formula	formal anchor	Appendix A
Source	bibliographic support	Appendix C
Next volume	strict development	Volumes II-V

**4. Phenomenological and anthropological comment**

The phenomenological comment keeps the formula connected with human experience. In Monograph 6.0, mathematical notation is not detached from the way a historical subject sees, proves, errs, rebuilds, and transmits knowledge.

**5. Sources and transitions**

**Source route:** *KUR-5.0 · APP-D · APP-E · TOM-II · TOM-III · classical support sources · see Appendix C and D.*

[⇐ Contents / Оглавление](#)

## Appendix A. Formula index

ID	Formula	Meaning
F-CAC	$C@C=(e,s)$	Event@state: the minimal unit for fixing reality, document, and perception.
F-RC	$C@C \rightarrow R@C@C \rightarrow T_{cs} \rightarrow Rep$	Transition hierarchy from raw fixation to causal and Reper connectivity.
F-REPER	$Rep_i=(R_i, I_i, U_i; D_i)$	Reper as a quadruple of reality, idea, universe, and sufficient foundation.
F-LAMBDA	$lambda=((U-R)(I-D))/((U-D)(I-R));$ $delta\ truth= lambda+1 $	Kurpishev Lambda Truth: harmonic authorization of truth.
F-KLT	KLT: $C@C \rightarrow Rep \rightarrow lambda \rightarrow$ $status \rightarrow rebuild$	Computable route of verification and rebuilding.
F-CGI	$CGI_i=(  T_{hole}^L  +  $ $F_{cent}^{\{XiUpsilon\}}  +  $ $F_{cor}^{\{P@S\}}  +\sum B_{nu})/(r_i$ $u_i+\epsilon)$	Causal gap index linking geometry, limits, and Reper stability.
F-PN2	PN.2: no canonical simultaneous exact fixation of size and dimension of a packet object	PN.2: authorial uncertainty principle of a packet object.
F-RBD	source $\rightarrow$ work/source unit $\rightarrow$ extraction $\rightarrow$ Rep $\rightarrow$ edge $\rightarrow$ graph component $\rightarrow$ rebuild	RBD/RPD as computable memory of sources, formulas, and relations.
F-PREDREP	$PredRep=(R,I,U;D;L,T,E,S)$	Predictive Reper: extension for limit, temporal, event, and status coordinates.

**Appendix B. Authorial theorems, methods and concepts**

<b>ID</b>	<b>Position</b>	<b>Route</b>
PN2	ПН.2 / PN.2	Volume I Appendix A; strict development in Volumes II-III.
DK	Теорема Дезарга-Курпишева / Desargues-Kurpishev theorem	Volume II; cross-link from Volume I.
PFK	Пакетные формализмы Курпишева / Kurpishev packet formalisms	Volumes I-III.
RBD	Репер и RBD / Reper and RBD	Volumes I and V.
KLT	Метод $\lambda$ -истинности Курпишева / KLT	Volume I; computational implementation in Volume V.
KLTRBD	KLT-RBD	Volume V; foundations in Volume I.

**Clickable route:** [PN2DKPFKRBDKLTCLTRBD](#)

## Appendix C. Bibliography and source cards

**[KUR-5.0]** И.Б. Курпишев. Монография 5.0: Логика Курпишева. 2026. Master-corpus: C@C, Reper, lambda, NAPG, V\*P, KLT/RBD.

**[ТОМ-II]** И.Б. Курпишев. Том II: NAPG 3.0, антропология и доказательный корпус. 2026. Strict geometry route: NAPG/KPF, Desargues-Kurpishev, Fano/PILOT, Arnold/Bibler support.

**[ТОМ-III]** И.Б. Курпишев. Том III: V\*P, KLT-RBD/RPD, PredReper и приложения. 2026. Physics, cosmology, computational and FIPS appendix route.

**[APP-D]** И.Б. Курпишев. Приложение D: единый указатель источников, формул и мыслей. 2026. Clickable source/formula/thought index.

**[APP-E]** И.Б. Курпишев. Приложение E: теория RPD/RBD. 2026. Corrected scale: 236 sources, 1145 units, 2212 Reper nodes, 2478 edges.

**[BOURBAKI]** N. Bourbaki. Architecture of Mathematics. 1948/1960. Mathematics as architecture and unity of theories.

**[ARNOLD]** V.I. Arnold. Geometry of Complex Numbers, Quaternions and Spins. 2002. Geometric intuition for algebraic and physical structures.

**[PONARIN]** Я.П. Понарин. Аффинная и проективная геометрия. 2009. Projective geometry, transformations, invariants.

**[RASHEVSKY]** П.К. Рашевский. Риманова геометрия и тензорный анализ. 1967. Tensor geometry, connection, curvature and physical applications.

**[BIBLER]** В.С. Библер. Кант - Галилей - Кант. 1991. Historical forms of reason and philosophical reading discipline.

**[OIZ-NAR]** Т.И. Ойзерман; И.С. Нарский. Теория познания Канта. 1991. Epistemology, conditions of knowledge, humanistic task of philosophy.

## Appendix D. Facsimile/source layer

This layer does not replace sources; it fixes a visual memory of the corpus. Full files remain in source-of-truth archives and future volumes.

Facsimile/source layer: selected cover pages from the project corpus



The facsimile layer is a navigational record; full source files remain in the source-of-truth archive.

Fig. 4. Selected cover/source pages from the source layer.

**Appendix E. Route to Volumes II-VI**

<b>Volume</b>	<b>Theme</b>	<b>Role</b>
II	Strict geometry	NAPG, KPF/RPHD, Desargues-Kurpishev, Fano/PILOT
III	V*P physics	stratified time, cosmology, reduced sectors
IV	Anthropology	historical forms of perception and understanding
V	Computation	KLT-RBD/RPD, CGI, PredRep, API
VI	Apparatus	sources, facsimiles, site, FIPS, archive

**Appendix F. PN.2: separate publication fixation**

PN.2 is fixed as Kurpishev's authorial principle concerning the impossibility of fully independent simultaneous stabilization of size and dimension for a packet object. This appendix is a navigation anchor for the following volumes.

[F-PN2-APP] PN.2:  $\text{Fix}(\text{size}) \wedge \text{Fix}(\text{dim})$  is not canonically independent for a packet object  
Separate PN.2 appendix anchor.

Section	Function	Next volume
геометрический	формальная размерность и страты	Том II
физический	сектор наблюдения и редукция	Том III
антропологический	историческая форма восприятия	Том IV
вычислительный	разметка узла и контекста	Том V

**Appendix G. Clickable theorem and formula map****Core links:** [F-CACF-REPERF-LAMBDAF-KLTF-PN2PN2DKPFKRBDKLTCLTRBDCH-12CH-16](#)

<b>Anchor</b>	<b>Object</b>	<b>Publication role</b>
F-CAC	C@C	foundation formula
F-REPER	Reper	minimal reversible structure
F-LAMBDA	lambda-truth	KLT truth method
F-PN2	PN.2	authorial principle
DK	Desargues-Kurpishev	transition to Volume II
RBD	Reper Database	transition to Volume V

**Appendix H. Editorial route to the complete Monograph 6.0**

<b>Stage</b>	<b>Action</b>	<b>Control</b>
v3.5	углубленный Том I	DOCX/TEX/PDF + hyperlinks
v3.6	боевой Том II	строгая геометрия и доказательства
v3.7	боевой Том III	V*P и космология
v3.8	Том IV	антропология и феноменология
v3.9	Том V	KLT-RBD/RPD вычисления
v4.0	единый master release	многотомная публикация

**END OF VOLUME I · v3.5**

KURPISHEV LOGIC 2. Monograph 6.0. Volume II.  
Expanded Strict Geometry

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2026 · KLT-DOCTRINE-6-0-MONOGRAPH-6-0-TOM-II-EXPANDED-STRICT-  
GEOMETRY-RU-EN-v3.7



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<b>2 Article Chapter 2. Пакетная точка и NAPG как строгая геометрия</b>	<b>11</b>
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<b>7 Article Chapter 7. MathArch и RPD-граф доказательств</b>	<b>21</b>
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# Abstract

Expanded Volume II fixes NAPG, KPF/RPHD, the Desargues-Kurpishev theorem, Fano/PILOT-01, MathArch, bibliography and source/facsimile layer.



# Formula index

## II-F01

$$C@C=(e, s)$$

Packet point: event and state are not separated.

## II-F02

$$L_s=\{(e, s)\}$$

Packet line as the layer of a fixed state.

## II-F03

$$\text{Rep}_i=(R_i, I_i, U_i; D_i)$$

Reper quadruple as an authorization unit.

## II-F04

$$\text{Truth}(\text{Rep}) \xrightarrow{\text{cr}(U, I; R, D)} -1$$

Projective-harmonic closure.

## II-F05

$$T_{\{cs\}}=T+R$$

Causal connectivity as torsion and curvature.

## II-F06

$$\xi_{\tau}: T \rightarrow T, \quad \Delta_{\nu}: P_{\emptyset, \nu} \rightarrow T, \quad \Upsilon: \Delta(P_{\emptyset}) \rightarrow T$$

Change, action and reversal operators.

## II-F07

$$\text{CGI}_i = (||T_{\text{hole}}^{\text{mathcal L}}|| + ||F_{\text{cent}}^{\xi \Upsilon}|| + ||F_{\text{cor}}^{P@S}|| + ||B_{\nu}||) / (r_i u_i + \varepsilon)$$

Causal gap index.

## II-F08

$$D=H_{\{A, C\}}(B), \quad \text{cr}(A, C; B, D)=-1$$

Harmonic point in the Desargues-Kurpishev theorem.

## II-F09

$$O_{\{0B\}} = \text{span}(\text{im}(\pi \circ q_{\{0B\}})) \subseteq H_{\{0B\}}$$

Obstruction carrier in PILOT-01/FCOC.

**II-F10**

$PG(2,2)$  requires compatible maps  $\varphi_L: 0_L \rightarrow F_2^3$   
 Fano globalization barrier.

**II-F11**

$G_{\{RPD\}} = (V, E, \Omega, \Lambda)$   
 RPD graph: nodes, edges, operators, lambda semantics.

**II-F12**

$GAP = (\text{missing domain}) \vee (\text{missing foundation}) \vee (\text{missing proof})$   
 Gap status in a formula chain.

# Chapter 1

## Article Chapter 1. Editorial status of expanded Volume II

*Expanded English mirror of the Russian chapter. The full Russian source text is authoritative at this checkpoint; this English version preserves structure, anchors, formulas, tables, and navigation for international reading.*

Anchors: [II-F01](#), [II-F05](#), [II-F08](#), [II-F10](#).

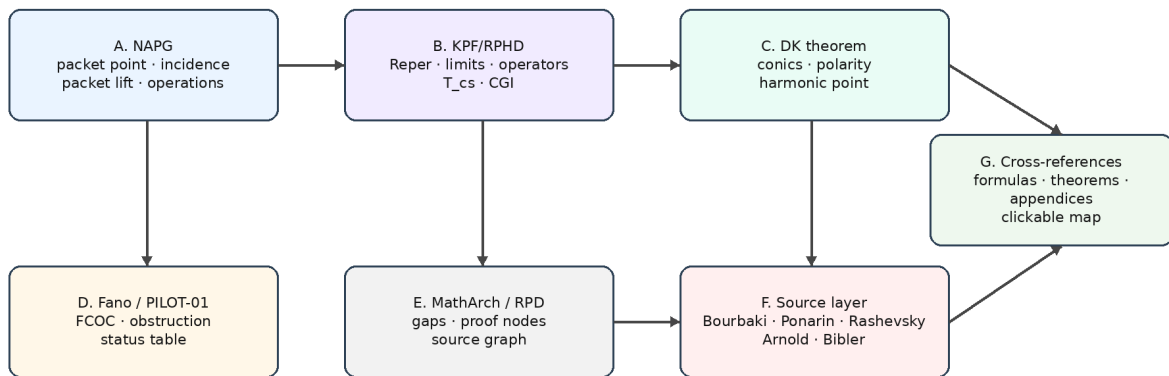
This section is not a reduction of the Russian corpus. It mirrors the editorial architecture, mathematical anchors, theorem-status discipline, and source-card logic of the Russian publication layer.

The English text intentionally keeps the key authorial terms: Reper, packet formalism, lambda-truth, Desargues-Kurpishev theorem, KPF/RPHD, RPD/RBD and KLT. These terms must remain stable across the whole monograph.

Each chapter is treated as an article: abstract, internal anchors, formulas, tables, figures, source cards and publication boundaries.

Слой	Что добавлено в v3.7	Куда ведет
source/facsimile	атлас выбранных страниц источников	Приложение D
DK theorem	расширенный proof-node	Том II/III
Fano/PILOT	theorem-status table	Том V
KPF/RPHD	CGI-flow	Том III/V
bibliography	классические source cards	Том VI

Volume II expanded architecture: theorem, source, computation, and proof-status layers



Expanded rule: no theorem is isolated; every theorem has formulas, examples, proof-status, source cards, and internal cross-links.

Правило v3.7: теорема не изолируется; каждая теорема имеет формулы, примеры, статус доказанности, карточки источников и внутренние ссылки.

## Chapter 2

# Article Chapter 2. Пакетная точка и NAPG как строгая геометрия

*Expanded English mirror of the Russian chapter. The full Russian source text is authoritative at this checkpoint; this English version preserves structure, anchors, formulas, tables, and navigation for international reading.*

Anchors: [II-F01](#), [II-F05](#), [II-F08](#), [II-F10](#).

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Each chapter is treated as an article: abstract, internal anchors, formulas, tables, figures, source cards and publication boundaries.

Объект	Строгая запись	Пояснение
Пакетная точка	$C@C=(e,s)$	событие в состоянии
Пакетная прямая	$L_s=\{(e,s)\}$	слой фиксированного состояния
Packet lift	classic object -> packet object	перенос без потери слоя
Packet incidence	$Inc\_pkg(a,L_s)$	допустимость принадлежности
NAPG operation	$X*Y$	операция с контролем слоя



## Chapter 3

# Article Chapter 3. KPF/RPHD и причинно-тензорная геометрия

*Expanded English mirror of the Russian chapter. The full Russian source text is authoritative at this checkpoint; this English version preserves structure, anchors, formulas, tables, and navigation for international reading.*

Anchors: [II-F01](#), [II-F05](#), [II-F08](#), [II-F10](#).

This section is not a reduction of the Russian corpus. It mirrors the editorial architecture, mathematical anchors, theorem-status discipline, and source-card logic of the Russian publication layer.

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Each chapter is treated as an article: abstract, internal anchors, formulas, tables, figures, source cards and publication boundaries.

Компонент	Геометрический смысл	Статус
$\chi$	изменение и длительность	оператор эволюции
Delta	действие и начало	оператор старта
Upsilon	разворот результата	оператор перевода в состояние
T_cs	причинная связность	тензорный слой
CGI	разрыв/устойчивость	вычислимый статус



## Chapter 4

# Article Chapter 4. Теорема Дезарга-Курпишева: расширенное изложение

*Expanded English mirror of the Russian chapter. The full Russian source text is authoritative at this checkpoint; this English version preserves structure, anchors, formulas, tables, and navigation for international reading.*

Anchors: [II-F01](#), [II-F05](#), [II-F08](#), [II-F10](#).

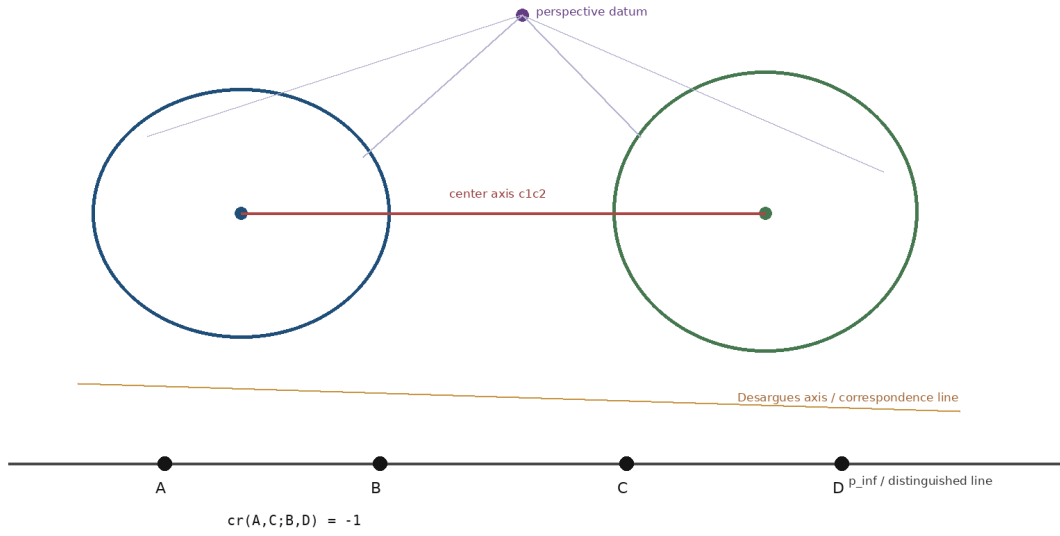
This section is not a reduction of the Russian corpus. It mirrors the editorial architecture, mathematical anchors, theorem-status discipline, and source-card logic of the Russian publication layer.

The English text intentionally keeps the key authorial terms: Reper, packet formalism, lambda-truth, Desargues-Kurpishev theorem, KPF/RPHD, RPD/RBD and KLT. These terms must remain stable across the whole monograph.

Each chapter is treated as an article: abstract, internal anchors, formulas, tables, figures, source cards and publication boundaries.

Шаг	Геометрическое действие	KLT-контроль
1	задать две центральные коники	проверить domain
2	выделить несобственную прямую	зафиксировать polarity
3	получить центры как полюса	создать center datum
4	провести центровую ось	создать axis node
5	ввести harmonic point D	проверить $cr=-1$
6	закрывать proof-node	присвоить theorem status

Desargues-Kurpishev theorem: expanded navigational scheme



Editorial note: the drawing fixes incidence and projective navigation; it is not a metric computation.

## Chapter 5

# Article Chapter 5. Проективные вычисления и примеры чтения

*Expanded English mirror of the Russian chapter. The full Russian source text is authoritative at this checkpoint; this English version preserves structure, anchors, formulas, tables, and navigation for international reading.*

Anchors: [II-F01](#), [II-F05](#), [II-F08](#), [II-F10](#).

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Each chapter is treated as an article: abstract, internal anchors, formulas, tables, figures, source cards and publication boundaries.

Элемент	Классический смысл	KLT-чтение
cross-ratio	проективный инвариант	lambda-authorization
polarity	соответствие точки и прямой	center/foundation datum
conic	проективный объект	носитель proof-node
incidence	принадлежность	admissible layer
harmonic division	$cr=-1$	истинностный узел



## Chapter 6

# Article Chapter 6. Fano/PILOT-01 и theorem-status дисциплина

*Expanded English mirror of the Russian chapter. The full Russian source text is authoritative at this checkpoint; this English version preserves structure, anchors, formulas, tables, and navigation for international reading.*

Anchors: [II-F01](#), [II-F05](#), [II-F08](#), [II-F10](#).

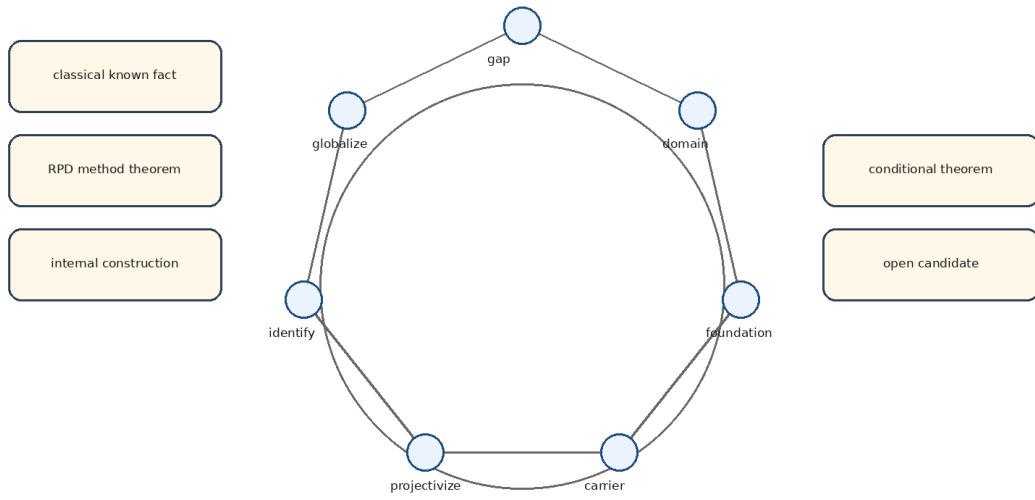
This section is not a reduction of the Russian corpus. It mirrors the editorial architecture, mathematical anchors, theorem-status discipline, and source-card logic of the Russian publication layer.

The English text intentionally keeps the key authorial terms: Reper, packet formalism, lambda-truth, Desargues-Kurpishev theorem, KPF/RPHD, RPD/RBD and KLT. These terms must remain stable across the whole monograph.

Each chapter is treated as an article: abstract, internal anchors, formulas, tables, figures, source cards and publication boundaries.

Статус	Утверждение	Правило публикации
classical known fact	cross-ratio, Fano plane	не заявлять как авторскую новизну
RPD method theorem	formula-chain gap	заявлять как метод аудита
internal construction	FCOC carrier	указывать внутренние условия
conditional theorem	Fano carrier under maps	писать условия явно
open candidate	global obstruction	оставлять открытым

Fano/PILOT-01: theorem-status and obstruction carrier map



Fano barrier: local compatible triples do not automatically yield a global PG(2,2) carrier without explicit identification maps.

## Chapter 7

# Article Chapter 7. MathArch и RPD-граф доказательств

*Expanded English mirror of the Russian chapter. The full Russian source text is authoritative at this checkpoint; this English version preserves structure, anchors, formulas, tables, and navigation for international reading.*

Anchors: [II-F01](#), [II-F05](#), [II-F08](#), [II-F10](#).

This section is not a reduction of the Russian corpus. It mirrors the editorial architecture, mathematical anchors, theorem-status discipline, and source-card logic of the Russian publication layer.

The English text intentionally keeps the key authorial terms: Reper, packet formalism, lambda-truth, Desargues-Kurpishev theorem, KPF/RPHD, RPD/RBD and KLT. These terms must remain stable across the whole monograph.

Each chapter is treated as an article: abstract, internal anchors, formulas, tables, figures, source cards and publication boundaries.

Gap	Недостающее звено	Действие
GAP-DOMAIN	область допустимости	задать domain
GAP-FOUNDATION	достаточное основание	добавить D
GAP-PROOF	доказательство	создать proof-node
GAP-MODEL	модель	указать модель
GAP-BRIDGE	перевод теорий	создать bridge



## Chapter 8

# Article Chapter 8. Классические источники и граница prior art

*Expanded English mirror of the Russian chapter. The full Russian source text is authoritative at this checkpoint; this English version preserves structure, anchors, formulas, tables, and navigation for international reading.*

Anchors: [II-F01](#), [II-F05](#), [II-F08](#), [II-F10](#).

This section is not a reduction of the Russian corpus. It mirrors the editorial architecture, mathematical anchors, theorem-status discipline, and source-card logic of the Russian publication layer.

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Each chapter is treated as an article: abstract, internal anchors, formulas, tables, figures, source cards and publication boundaries.

Источник	Роль	Граница
Понарин	проективная геометрия	фон, не авторская новизна
Рашевский	тензорный аппарат	язык связности
Бурбаки	архитектура математики	метафрейм
Арнольд	геометризация алгебры	источник стиля
Библер	исторические формы разума	антропологический мост



## Chapter 9

# Article Chapter 9. Source/facsimile-layer и публикационная навигация

*Expanded English mirror of the Russian chapter. The full Russian source text is authoritative at this checkpoint; this English version preserves structure, anchors, formulas, tables, and navigation for international reading.*

Анchors: [II-F01](#), [II-F05](#), [II-F08](#), [II-F10](#).

This section is not a reduction of the Russian corpus. It mirrors the editorial architecture, mathematical anchors, theorem-status discipline, and source-card logic of the Russian publication layer.

The English text intentionally keeps the key authorial terms: Reper, packet formalism, lambda-truth, Desargues-Kurpishev theorem, KPF/RPHD, RPD/RBD and KLT. These terms must remain stable across the whole monograph.

Each chapter is treated as an article: abstract, internal anchors, formulas, tables, figures, source cards and publication boundaries.

Тип навигации	Что дает	Где используется
bookmark	переход к главе/формуле	DOCX
source-card	библиографический узел	все тома
facsimile sheet	визуальная проверка источника	Приложение
formula index	быстрый доступ к формулам	Том I-VI
cross-reference map	машинная карта ссылок	site/API



# Source cards

**SRC-ТОМ-II.** И.Б. Курпишев. Том II: NAPG 3.0, антропология и доказательный корпус (2026). source-of-truth for strict geometry, KPF/RPHD, DK theorem, Fano/PILOT

**SRC-PILOT.** И.Б. Курпишев. Реперно-проективная архитектура формульных цепочек: PILOT-01 (2026). FCOС, obstruction carriers, theorem-status table

**SRC-DK.** И.Б. Курпишев. Теорема Дезарга-Курпишева: source package (2026). projective theorem source package

**SRC-BOURBAKI.** N. Bourbaki. Architecture of Mathematics (1948/1960). classical support for mathematical architecture

**SRC-PONARIN.** Я.П. Понарин. Аффинная и проективная геометрия (2009). projective transformations, conics, Desargues/Pappus context

**SRC-RASHEVSKY.** П.К. Рашевский. Риманова геометрия и тензорный анализ (1967). tensor apparatus, connections, curvature

**SRC-ARNOLD.** В.И. Арнольд. Геометрия комплексных чисел, кватернионов и спинов (2002). geometrization of algebraic and physical structures

**SRC-BIBLER.** В.С. Библер. Кант - Галилей - Кант (1991). historical forms of reason and reading matrices

**SRC-APP-D.** И.Б. Курпишев. Приложение D: единый указатель источников, формул и мыслей (2026). cross-reference infrastructure

**SRC-APP-E.** И.Б. Курпишев. Приложение E: теория RPD/RBD (2026). corrected Reper database count and graph method



# Appendix A

## Appendix A. PILOT-01: full textual block

This appendix preserves the full textual layer extracted from the PILOT-01 PDF. The PDF source is also preserved in the archive.

Реперно-проективная архитектура формульных  
цепочек: PILOT-01

Финальная двуязычная проверка препринта и плоскость Фано как  
онтологический барьер

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Точка сборки: RP-MATH-ARCH-037-PILOT01-FINAL-PREPRINT-REVIEW-  
BILINGUAL-PDF

Основание:

RP-MATH-ARCH-036-PILOT01-SUBMISSION-README-AND-ARXIV-PACK

3 мая 2026 г.

### Аннотация

Настоящая статья представляет PILOT-01 как узкий доменный тест программы Reper-Projective Database (RPD). Математический текст моделируется как граф формульных переходов, Reper-узлов, гар-узлов, носителей препятствий и кандидатов в теоремы. Выбранный домен соединяет проективно-гармоническую геометрию, packet incidence, корректную нотацию препятствий и Fano-type projective carriers. В статье строго отделяется классический фон от внутреннего вклада RPD: cross-ratio, projectivization, projective spaces и Fano plane рассматриваются как известные математические объекты; вклад RPD состоит в formula-chain audit, Formula-Chain Obstruction Complex (FCOC), нетривиальном packet-obstruction примере и условной Fano carrier theorem. Плоскость Фано интерпретируется как онтологический барьер: локальные packet-obstruction носители не глобализуются автоматически в  $P^2$  ( $F^2$ ); переход через барьер требует явных совместимых карт отождествления.

Ключевые слова: Reper-Projective Database; аудит формульных цепочек; проективная геометрия; cross-ratio; плоскость Фано; packet incidence; obstruction carrier; FCOC; detection of theorem candidates.

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2 Related Work и граница prior-art	
3 Формальные определения	
4 Теорема о гар в формульной цепочке	
5 Корректная OB-нотация и projectivization	
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9 Условная Fano carrier theorem	7
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## 2

## 1. Введение

Математические тексты содержат не только явные формулы и доказательства, но также скрытые доменные предположения, недостаточно определённые переходы, локальные разрывы и потенциальные theorem candidates. Программа RPD рассматривает такие объекты как граф: источники, формулы, формульные шаги, Roper-узлы, гар-узлы, носители препятствий и кандидаты в теоремы получают типизированные связи.

PILOT-01 является первой узкой статьёй этой программы. Он сосредоточен на проективно-гармонических формульных цепочках, packet incidence, корректной OB-нотации и Fano-type carriers. Цель состоит не в замене классической проективной геометрии, а в построении внутреннего RPD-слоя, который проверяет формульные переходы и отличает обоснованные шаги от переходов с отсутствующим domain или sufficient foundation.

classical known fact  $\neq$  RPD method theorem  $\neq$  internal construction theorem  $\neq$  cond

## 2. Related Work и граница prior-art

Cross-ratio и гармоническое значение  $-1$  являются классическими объектами проективной геометрии. PILOT-01 не заявляет новизну cross-ratio. Вклад RPD состоит в использовании Reper-четвёрки  $(R, I, U ; D)$  и правила formula-chain audit, которое запрещает превращать harmonic condition в полностью обоснованный truth-status без admissible domain и sufficient foundation.

Projectivization также является стандартной конструкцией. Проективный объект не совпадает с векторным пространством, из которого он образован. Поэтому используется корректная нотация

00B vector obstruction carrier,  $P(00B)$  projectivized obstruction carrier.

Плоскость Фано есть классическая конечная проективная плоскость над  $F_2$ . В PILOT-01 она используется условно: трёхмерный  $F_2$ -носитель препятствий проективизуется в  $P^2(F_2)$ , а глобальный Fano carrier требует явной identification axiom.

Maurer–Cartan и deformation theory дают внешний аналог для квадратичных obstruction terms и lifting problems. В статье не утверждается, что внутренний FCOC-носитель уже тождественен классическому deformation-theoretic obstruction quotient. Это остаётся открытой задачей.

### 3. Формальные определения

Определение 3.1 (Formula-chain step). Formula-chain step есть типизированный переход

$$s = (F_i, F_j, \tau, A, \text{Dom}, D),$$

где  $F_i$  и  $F_j$  – formula nodes,  $\tau$  – тип перехода,  $A$  – support set,  $\text{Dom}$  – admissible domain, а  $D$  – sufficient foundation.

Определение 3.2 (Reper-четвёрка). Reper-четвёрка записывается как

$$\text{Rep} = (R, I, U ; D),$$

3

где  $R$  обозначает установленное содержание,  $I$  – invariant или idea,  $U$  – поле возможностей, а  $D$  – sufficient foundation или context.

Определение 3.3 (Formula-Chain Obstruction Complex). Конечномерный Formula-Chain Obstruction Complex есть трёхчленный комплекс

$$\begin{array}{ccc} & d & d \\ C^0 & \rightarrow & \\ & 0 & \\ & & C^1 \rightarrow \\ & & 1 \\ & & C^2 \end{array}$$

с квадратичной картой препятствий  $q_{0B} : C^1 \rightarrow C^2$ . Определим

$$H_{0B} = C^2 / \text{im}(d_1), \quad 00B = \text{span}(\text{im}(\pi \circ q_{0B})) \subseteq H_{0B}.$$

Рис. 1: Граф RPD-аудита формульной цепочки.

#### 4. Теорема о gap в формульной цепочке

Теорема 4.1 (Formula-chain gap theorem). Если шаг формульной цепочки использует projective truth authorization

$$\text{cr}(U, I; R, D) = -1 \Rightarrow \text{truth-status}$$

без admissible domain или sufficient foundation  $D$ , то RPD-аудит создаёт GAP-DOMAIN- или GAP-ASSUMP-MISSING.

Доказательство. В RPD-аудите действуют два правила. AUDIT-DOMAIN создаёт GAP-DOMAIN-MISSING, когда domain отсутствует или недопустим. AUDIT-FOUNDATION создаёт GAP-ASSUMP-MISSING, когда  $D$  отсутствует, пуст, неоднозначен или не прикреплен к шагу. Следовательно, при отсутствии хотя бы одного требования создаётся соответствующий gap-node.

4

#### 5. Корректная $0B$ -нотация и projectivization

Теорема 5.1 (Projectivization dimension lemma). Пусть  $0$  – ненулевое векторное пространство над полем  $k$  и  $\dim_k 0 = n + 1$ . Тогда  $P(0)$  изоморфно  $P_n(k)$  после выбора базиса.

Доказательство. Выбор базиса отождествляет  $0$  с  $k^{n+1}$ . Проективизация даёт  $P(0) \sim$

$$= P(k^{n+1}) = P_n(k).$$

Следствие 5.2 (Fano и real projective regimes). Если  $\dim_{F_2} 00B = 3$ , то  $P(00B) = P_2(F_2)$ . Если  $\dim_R 00B = 3$ , то  $P(00B) = RP_2$ .

#### 6. FCOC carrier theorem

Рис. 2: Схема FCOC obstruction carrier.

Теорема 6.1 (FCOC carrier theorem). Для конечномерного внутреннего комплекса  $C_0 \rightarrow C_1 \rightarrow C_2$  и  $q_{0B} : C_1 \rightarrow C_2$  quotient  $H_{0B} = C_2 / \text{im}(d_1)$  является векторным пространством, а  $00B = \text{span}(\text{im}(\pi \circ q_{0B}))$  – его векторным подпространством. Следовательно,  $00B$  корректно определён как vector obstruction carrier. Доказательство. Так как  $\text{im}(d_1)$  является подпространством  $C_2$ , quotient  $H_{0B}$  является векторным пространством. Образ  $\pi \circ q_{0B}$  является подмножеством  $H_{0B}$ . Линейная оболочка подмножества векторного пространства является векторным подпространством. Значит,  $00B \subseteq H_{0B}$ .

#### 7. Нетривиальное packet obstruction

Теорема 7.1 (Nontrivial packet obstruction). Пусть  $C_1 = k^3$ ,  $C_2 = k^3$ ,  $d_1 = 0$  и  $q_{0B}(a, b, c) = (ab, bc, ca)$ .

Тогда  $00B = k^3$ .

Доказательство. Так как  $d_1 = 0$ , получаем  $\dim \text{NOB} = k^3$ . Вычисления дают

$$q_{\text{OB}}(1, 1, 0) = e_1, \quad q_{\text{OB}}(0, 1, 1) = e_2, \quad q_{\text{OB}}(1, 0, 1) = e_3.$$

Образ  $q_{\text{OB}}$  содержит базис  $k^3$ . Поэтому его линейная оболочка равна  $k^3$ , то есть  $\dim \text{OVB} = k^3$ .

Рис. 3: Нетривиальная packet obstruction map.

### 8. Плоскость Фано как онтологический барьер

В PИЛОТ-01 плоскость Фано используется не просто как конечный projective example. Она выполняет роль онтологического барьера между локальными packet-obstruction носителями и глобальным projective carrier. До барьера семь локальных носителей дают прямую сумму размерности 21. После барьера point-compatible identification maps  $\phi_L : \text{OL} \rightarrow F_{32}$  позволяют получить identified carrier

$$\begin{aligned} \text{Oglobal} &\sim \\ &= F_{32} \text{ и } P(\text{Oglobal} \\ &\quad \text{id} \quad ) = P_2(F_2). \end{aligned}$$

Принцип 8.1 (Fano ontological barrier). Локальные носители  $\{\text{OL}\} \in \text{FanoLines}$  не задают автоматически global Fano carrier. Честная доглобальная конструкция есть прямая сумма семи локальных трёхмерных носителей, то есть имеет размерность 21. Переход через барьер требует явных point-compatible maps  $\phi_L : \text{OL} \rightarrow F_{32}$ .

Рис. 4: Плоскость Фано как онтологический барьер между локальными packet-obstruction carriers и global projective carrier.

### 9. Условная Fano carrier theorem

Теорема 9.1 (Conditional Fano carrier). При Fano identification axiom локальные line carriers склеиваются point-compatible maps. Quotient/colimit порождается семью ненулевыми векторами  $F_{32}$ . Поэтому

$$\begin{aligned} \text{Oglobal} &\sim \\ &= F_{32}, \quad \text{id} \\ &\quad P(\text{Oglobal}) = P_2(F_2). \end{aligned}$$

Доказательство. Аксиома совместимости отождествляет все локальные копии одного и того же Fano point direction. После факторизации по этим отношениям глобальный носитель порождён семью ненулевыми векторами  $F_{32}$ .

Эти векторы порождают  $F32$  . Проективизация даёт  $P2$  ( $F2$  ).

7

## 10. Граница утверждений и открытые задачи

Рис. 5: Граница утверждений: классический фон, внутренние RPD-результаты, условная теорема и открытые кандидаты.

Главные открытые задачи: general packet incidence reflection theorem; natural packet functor, порождающий Fano identification maps; строгое сравнение с Maurer–Cartan/deformation-theoretic obstruction quotients; proof-assistant или executable checker для правил RPD-аудита.

## 11. Заключение

PILOT-01 показывает, что RPD может пересобрать узкий математический домен как цепочку audit, obstruction construction, projectivization, Fano extension и theorem-candidate control. Наиболее устойчивые результаты остаются внутренними или условными: formula-chain gap theorem, FCOC carrier theorem, nontrivial packet obstruction, Fano ontological barrier и conditional Fano carrier theorem. Внешняя deformation-theoretic идентификация сохранена как открытая задача.

### A. Таблица theorem/status

ID	Название	Статус
T-PH-009	Reper harmonic method lemma	method lemma, not classical novelty
T-PH-001	Formula-chain gap theorem	proved inside RPD method
T-PH-002	Projectivization dimension lemma	classical known fact used

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ID	Название	Статус
T-PH-003	Fano/RP2 corollaries	conditional on field/dimension
T-PH-004	FCOC carrier theorem	proved inside internal RPD model
T-PH-005	Nontrivial packet OB theorem	proved inside internal RPD model
T-PH-006	Fano local line extension	proved inside internal RPD model

T-PH-007	Fano direct-sum carrier theorem	proved inside internal RPD model
T-PH-012	Fano ontological barrier principle	RPD interpretation and internal boundary principle
T-PH-008	Conditional Fano carrier theorem	conditional on identification axiom
T-PH-010	General packet incidence reflection theorem	open
T-PH-011	External deformation-theoretic OB theorem	open

## В. Граф зависимостей

Рис. 6: Граф зависимостей теорем статьи.

### Список литературы

- [1] Encyclopedia of Mathematics. Cross ratio. 2013. [https://encyclopediaofmath.org/wiki/Cross\\_ratio](https://encyclopediaofmath.org/wiki/Cross_ratio).
- [2] Encyclopaedia Britannica. Cross ratio. 2026. <https://www.britannica.com/science/cross-ratio>.
- [3] Eric W. Weisstein. Projective Space. Wolfram MathWorld, 2026. <https://mathworld.wolfram.com/ProjectiveSpace.html>.
- [4] Todd Rowland and Eric W. Weisstein. Projectivization. Wolfram MathWorld, 2026. <https://mathworld.wolfram.com/Projectivization.html>.
- [5] Eric W. Weisstein. Fano Plane. Wolfram MathWorld, 2026. <https://mathworld.wolfram.com/FanoPlane.html>.
- [6] ProofWiki. Definition: Fano Plane. 2016. [https://proofwiki.org/wiki/Definition:Fano\\_Plane](https://proofwiki.org/wiki/Definition:Fano_Plane).
- [7] nLab. Maurer-Cartan equation. 2026. <https://ncatlab.org/nlab/show/Maurer-Cartan+equation>.
- [8] nLab. Deformation theory. 2026. <https://ncatlab.org/nlab/show/deformation+theory>.
- [9] H. S. M. Coxeter. Projective Geometry. University of Toronto Press, 1974. Exact edition metadata should be verified.
- [10] Иван Борисович Курпишев. KLT/RPD internal corpus: Reper, lambda-truth, RPD/FCOC, and PILOT-01 development sequence. Internal project corpus,

2026.

## Appendix B

# Appendix B. Desargues-Kurpishev theorem: full source appendix

This appendix preserves the full TeX source of the authorial article on the Desargues-Kurpishev theorem.

```
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\usepackage{fontspec}
\usepackage{polyglossia}
\setmainlanguage{russian}
\setotherlanguage{english}
\setmainfont{Noto Serif}
\setsansfont{Noto Sans}
\setmonofont{DejaVu Sans Mono}

\usepackage{unicode-math}
\setmathfont{Asana Math}

\usepackage{geometry}
\geometry{left=25mm,right=25mm,top=22mm,bottom=25mm}
\usepackage{microtype}
\usepackage{setspace}
\onehalfspacing
\emergencystretch=4em
\tolerance=2500
\hbadness=5000
\usepackage{amsmath,amsthm,mathtools}
\usepackage{array,booktabs,longtable}
\usepackage{enumitem}
\usepackage{xcolor}
\usepackage{titlesec}
\usepackage{fancyhdr}
\usepackage{hyperref}
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  linkcolor=blue!45!black,
  urlcolor=blue!45!black,
  citecolor=blue!45!black,
  pdftitle={Теорема Дезарга-Курпишева о двух кониках, центральной оси и гармонической
  pdfauthor={Ivan Borisovich Kurpishev},
  pdfsubject={Projective geometry, KLT-RBD, harmonic point},
  pdfkeywords={Desargues theorem, Kurpishev, conic, projective geometry, KLT, Reper
```

```

}

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\definecolor{titleblue}{HTML}{173B54}
\definecolor{rulegold}{HTML}{C9A74E}
\definecolor{softgray}{HTML}{F1F1F1}
\pagecolor{paperbg}

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\titleformat{\subsection}{\large\bfseries\color{titleblue}}{\thesubsection.}{0.6em}{}
\titleformat{\subsubsection}{\normalsize\bfseries\color{titleblue}}{\thesubsubsecti

\pagestyle{fancy}
\fancyhf{}
\lhead{\small Теорема Дезарга-Курпишева}
\rhead{\small KLT-доказательство}
\cfoot{\small \thepage}
\renewcommand{\headrulewidth}{0.2pt}

\theoremstyle{definition}
\newtheorem{definition}{Определение}[section]
\newtheorem{remark}[definition]{Замечание}
\newtheorem{construction}[definition]{Построение}
\theoremstyle{plain}
\newtheorem{lemma}[definition]{Лемма}
\newtheorem{theorem}[definition]{Теорема}
\newtheorem{corollary}[definition]{Следствие}

\newcommand{\PP}{\mathbb P}
\newcommand{\KK}{\mathbb K}
\newcommand{\Pole}{\operatorname{Pole}}
\newcommand{\Pol}{\operatorname{Pol}}
\newcommand{\crossr}{\operatorname{cr}}
\newcommand{\Rep}{\operatorname{Rep}}
\newcommand{\Des}{\operatorname{Des}}
\newcommand{\Aff}{\operatorname{Aff}}
\newcommand{\DK}{\operatorname{DK}}
\newcommand{\Harm}{\operatorname{Harm}}

\begin{document}

\begin{titlepage}
\centering
\vspace*{12mm}
{\Large\scshape Авторская математическая статья\par}
\vspace{8mm}
{\Huge\bfseries\color{titleblue} Теорема Дезарга-Курпишева\par}
\vspace{4mm}
{\LARGE\bfseries о двух кониках, центральной оси и гармонической точке\par}
\vspace{8mm}
{\large доказательство по принципам KLT-RBD\par}
\vspace{12mm}
\rule{0.68\textwidth}{0.7pt}\par
\vspace{8mm}

```

```

{\Large Иван Борисович Курпишев\par}
\vspace{2mm}
{\large Ivan Borisovich Kurpishev\par}
\vspace{2mm}
{\large Independent Researcher, Kaliningrad\par}
\vspace{2mm}
{\large \href{mailto:me@kurpishev.ru}{me@kurpishev.ru}\par}
\vflll
{\large Калининград, 2026\par}
\vspace{6mm}
\end{titlepage}

```

```

\thispagestyle{plain}
\begin{center}
{\Large\bfseries Аннотация}
\end{center}

```

В статье формулируется и доказывается строгая версия авторской теоремы Дезарга-Курпише

Доказательство построено по принципам KLT: геометрическая конфигурация реперизуется

```

\vspace{4mm}
\noindent\textbf{Ключевые слова:} теорема Дезарга; Курпишев; коника; проективный ко

```

```

\newpage
\tableofcontents
\newpage

```

```

\section{Введение}

```

Классическая теорема Дезарга связывает перспективность двух треугольников с коллине

Теорема Дезарга-Курпишева использует этот классический принцип в расширенном геомет

Главный смысл теоремы состоит в следующей цепочке:

```

\[
\begin{aligned}
&\text{две коники} \ \&\longrightarrow \ \text{два полярных центра} \ \&\longrightarrow \ \text{центровая ось} \ \&\longrightarrow \ \text{несобственная точка} \ \&\longrightarrow \ \text{гармоническое замыкание}.
\end{aligned}
\]

```

В KLT-прочтении эта цепочка является не только геометрической, но и доказательной.

```

\section{Проективная среда}

```

Всюду далее  $(\mathbb{K})$  обозначает поле характеристики, отличной от  $(2)$ . Основной на

```

Пусть
\[
\mathbb{P}^2(\mathbb{K})
\]

```

- проективная плоскость, а

```
\[
p\subset \Pi
\]
```

- выделенная прямая. В аффинной интерпретации она играет роль несобственной прямой.

```
\[
\Pi_{\mathrm{aff}}=\Pi\setminus p.
\]
```

Точки прямой  $(p)$  интерпретируются как направления. Именно на этой прямой будет по

```
\[
(A,C;B,D).
\]
```

`\begin{definition}[Несобственная прямая]`

Выделенная прямая  $(p\subset\Pi)$  называется несобственной прямой конфигурации, если

`\end{definition}`

`\begin{definition}[Центральная коника относительно  $(p)$ ]`

Невырожденная коника  $(\Phi\subset\Pi)$  называется центральной относительно  $(p)$ ,

`\end{definition}`

`\section{Полярность коники и центр}`

Невырожденная коника  $(\Phi)$  в проективной плоскости задаёт полярность:

```
\[
\mathrm{Pol}_{\Phi}:\{\text{точки}\}\longleftarrow\{\text{прямые}\}.
\]
```

Точке сопоставляется её поляр, а прямой - её полюс. Этот аппарат позволяет определять

`\begin{definition}[Центр коники]`

Пусть  $(\Phi\subset\Pi)$  - невырожденная коника, а  $(p\subset\Pi)$  - выделенная нес

```
\[
O_{\Phi}:=\mathrm{Pole}_{\Phi}(p).
\]
```

`\end{definition}`

Для двух коник  $(\Phi_1)$  и  $(\Phi_2)$  будем писать

```
\[
O=\mathrm{Pole}_{\Phi_1}(p),\quad O'=\mathrm{Pole}_{\Phi_2}(p).
\]
```

Если  $(O\neq O')$ , то эти две точки задают единственную прямую:

```
\[
\ell=OO'.
\]
```

Эта прямая называется центральной осью двух коник.

`\begin{definition}[Центровая ось]`

Пусть  $(\Phi_1,\Phi_2)$  - две центральные коники относительно  $(p)$ , а  $(O,O')$  - и

```
\[
\ell_{OO'}:=OO'
\]
```

называется центральной осью пары  $((\Phi_1,\Phi_2))$ .

\end{definition}

\section{Гармоническая точка на несобственной прямой}

Пусть  $(A, B, C)$  - три различные точки на прямой  $(p)$ . В проективной геометрии четвёрка  $(A, B, C, D)$  называется гармонической, если  $\text{crossr}(A, C; B, D) = -1$ .

\begin{definition}[Гармонически сопряжённая точка]

Для трёх различных точек  $(A, B, C \in p)$  точка  $(D \in p)$  называется гармонически сопряжённой к  $(B)$  относительно  $(A, C)$ , если  $\text{crossr}(A, C; B, D) = -1$ .

\crossr(A, C; B, D) = -1.

\]

Она обозначается

\[

$D = H_{A, C}(B)$ .

\]

\end{definition}

\begin{lemma}[Единственность гармонической точки]

Пусть  $(K \neq \mathbb{R})$ . Для любых трёх различных точек  $(A, B, C \in p)$  существует единственная точка  $(D \in p)$  такая, что  $\text{crossr}(A, C; B, D) = -1$ .

\crossr(A, C; B, D) = -1.

\]

\end{lemma}

\begin{proof}

Выберем на прямой  $(p)$  проективную координату. Проективным преобразованием прямой  $(p)$  можно привести к координатам  $(0, 1, \infty, D)$ , где  $(0, 1, \infty)$  соответствуют точкам  $(A, B, C)$  соответственно.

\crossr(A, C; B, D) = -1

\]

становится линейно-дробным уравнением относительно координаты точки  $(D)$ . Так как  $\text{crossr}(0, \infty; 1, D) = -1$ , то  $D = -1$ .

\end{proof}

\section{Дезаргова конфигурация, извлечённая из двух конусов}

Пусть две коники  $(\Phi_1)$  и  $(\Phi_2)$  рассматриваются как плоские сечения двух пучков конусов с вершинами  $(O_1)$  и  $(O_2)$  и образующими  $(g_1)$  и  $(g_2)$  соответственно.

Обозначим две тройки точек, полученные из соответствующих образующих и визирной связи  $(O_1, O_2)$  как  $(T_1)$  и  $(T_2)$  соответственно.

\[  
 $T_1 = (P_1, P_2, P_3), \text{quad } T_2 = (Q_1, Q_2, Q_3)$ .  
 \]

\]

Эти тройки понимаются как два треугольника, вложенные в плоскость сечения  $(\Pi)$  и имеющие общую вершину  $(O)$ .

\begin{definition}[Дезаргова конфигурация]

Две тройки точек  $(T_1 = (P_1, P_2, P_3))$  и  $(T_2 = (Q_1, Q_2, Q_3))$  образуют дезаргову конфигурацию, если  $\text{crossr}(P_1, P_2; Q_1, Q_2) = \text{crossr}(P_2, P_3; Q_2, Q_3) = \text{crossr}(P_3, P_1; Q_3, Q_1) = -1$ .

\crossr(P\_1, P\_2; Q\_1, Q\_2) = \crossr(P\_2, P\_3; Q\_2, Q\_3) = \crossr(P\_3, P\_1; Q\_3, Q\_1) = -1

\]

пересекаются в одной точке перспективности или задают допустимую проективную перспективу.

\[

$X_{12} = P_1P_2 \cap Q_1Q_2,$

\]

$X_{13} = P_1P_3 \cap Q_{1Q_3}$ ,

$X_{23} = P_2P_3 \cap Q_{2Q_3}$

лежат на одной прямой. Эта прямая называется осью Дезарга и обозначается

$d_{\text{Des}}$ .

`\end{definition}`

В теореме Дезарга-Курпишева дезаргова ось не вводится как внешняя линия. Она отождествляется

$d_{\text{Des}} = 00'$ .

Именно это отождествление связывает классическую дезаргову геометрию с полярной геометрией.

### `\section{Конфигурация Дезарга-Курпишева}`

`\begin{definition}[Конфигурация Дезарга-Курпишева]`

Конфигурацией Дезарга-Курпишева называется набор

$\mathcal{C}_{\text{DK}} = (\mathbb{P}^2, p; A, B, C; \Phi_1, \Phi_2; 0, 0'; d_{\text{Des}})$

со следующими свойствами:

`\begin{enumerate}[label=\arabic*]`

`\item`  $(\mathbb{P}^2 = \mathbb{P}^2(\mathbb{K}))$  - проективная плоскость над полем  $(\mathbb{K})$ , где  $(\text{operator})$

`\item`  $(p \subset \mathbb{P}^2)$  - выделенная несобственная прямая;

`\item`  $(A, B, C \in p)$  - три различные точки;

`\item`  $(\Phi_1, \Phi_2 \subset \mathbb{P}^2)$  - две невырожденные центральные коники относительно

`\item` центры коник определены полярно:

$0 = \text{Pole}_{\Phi_1}(p), \text{quad } 0' = \text{Pole}_{\Phi_2}(p);$

`\item`  $(0 \neq 0')$ , поэтому линия  $(00')$  определена;

`\item` образующие двух проективных конусов и визирная связь задают дезаргову конфигурацию

`\item` ось Дезарга совпадает с центральной осью:

$d_{\text{Des}} = 00';$

`\item` пересечение этой оси с несобственной прямой является гармонически сопряжённой

$00' \cap p = H_{\{A, C\}}(B).$

`\end{enumerate}`

`\end{definition}`

Последнее условие можно записать в эквивалентной форме:

$\text{crossr}(A, C; B, 00' \cap p) = -1.$

`\]`

### `\section{Теорема Дезарга-Курпишева}`

`\begin{theorem}[Теорема Дезарга-Курпишева]`

Пусть дана конфигурация Дезарга-Курпишева

`\[`  

$$\mathcal{C}_{\backslash DK}=(\backslash Pi, p; A, B, C; \backslash Phi_1, \backslash Phi_2; 0, 0'; d_{\backslash Des}).$$

Тогда линия центров двух коник

`\[`  
 $00'$

пересекает несобственную прямую  $(p)$  в единственной точке

`\[`  
 $D=00' \cap p,$

и эта точка является гармонически построенной точкой Дезарга-Курпишева:

`\[`  
 $\text{crossr}(A, C; B, D) = -1.$

Иначе говоря,

`\[`  
 $D=H_{\{A, C\}}(B).$

`\]`  
`\end{theorem}`

`\begin{proof}`

По определению конфигурации центры двух коник различны:

`\[`  
 $0 \neq 0'.$

Следовательно, в проективной плоскости  $(\backslash Pi)$  существует единственная прямая, прох

`\[`  
 $\ell=00'.$

Поскольку  $(\ell)$  и  $(p)$  являются прямыми одной и той же проективной плоскости, о

`\[`  
 $D=\ell \cap p=00' \cap p.$

По условию дезарговой совместимости ось Дезарга, построенная из соответствующих обр

`\[`  
 $d_{\backslash Des}=00'.$

Поэтому найденная точка  $(D)$  является не произвольной несобственной точкой, а несо

`\[`  
 $D=d_{\backslash Des} \cap p.$

По условию гармонической совместимости конфигурации эта точка совпадает с гармониче

`\[`  
 $D=H_{\{A, C\}}(B).$

Следовательно, по определению гармонически сопряжённой точки выполняется

`\[`

```
\crossr(A,C;B,D)=-1.
\]
```

Единственность  $\{(D)\}$  следует из единственности пересечения двух прямых в проективно  
 $\end{\proof}$

$\section{\text{Конструктивная форма теоремы}}$

Для публикационного и прикладного использования удобно записать не только теорему,

$\begin{\construction}$  [Построение точки Дезарга-Курпишева]

Пусть заданы  $\{(p)\}$ , три различные точки  $\{(A,B,C \in p)\}$ , две центральные коники  $\{(P$

$\begin{\enumerate}$  [label= $\arabic*$ ]

$\item$  определить центры коник:

$\{$

$0=\text{Pole}_{\{\Phi_1\}}(p), \text{qqquad } 0'=\text{Pole}_{\{\Phi_2\}}(p);$

$\}$

$\item$  провести центровую ось:

$\{$

$\ell=00';$

$\}$

$\item$  найти несобственную точку этой оси:

$\{$

$D=\ell \cap p;$

$\}$

$\item$  проверить гармоническую нормировку:

$\{$

$\crossr(A,C;B,D)=-1;$

$\}$

$\item$  при наличии дезарговой конфигурации отождествить

$\{$

$\ell=d_{\{\text{Des}\}}.$

$\}$

$\end{\enumerate}$

Если пункты 4 и 5 выполнены, точка  $\{(D)\}$  является гармонической точкой Дезарга-Курпи

$\end{\construction}$

Эта форма важна для сайта и для дальнейших вычислительных приложений KLT-RBD: она д

$\section{\text{KLT-доказательство}}$

В KLT доказательство рассматривается как закрытие Rep-структуры. Для настоящей те

$\{$

$\text{Rep}_{\{\text{DK}\}}=(R,I,U;\text{mathcal{D}}).$

$\}$

$\subsection{\text{Фактический слой } \{(R)\}}$

Фактический слой содержит все данные конфигурации:

$\{$

$R=\{\{\Pi,p,A,B,C,\Phi_1,\Phi_2,0,0',d_{\{\text{Des}\}}\}\}.$

$\}$

Сюда входят не только коники и центры, но также выделенная несобственная прямая, тр

### \subsection{Идейный слой \ (I\)}

Идея теоремы состоит в том, что линия центров двух коник не является произвольной

```
\[
I=\left\{\begin{array}{l}
\text{центровая ось является осью Дезарга}\backslash\backslash
\text{и указывает гармоническую точку}
\end{array}\right\}.
\]
```

### \subsection{Универсум \ (U\)}

Универсум содержит допустимые проективные положения:

```
\[
U=\left\{\begin{array}{l}
\text{пары центральных коник, полярные центры,}\backslash\backslash
\text{визирные связи, дезарговы оси}
\end{array}\right\}.
\]
```

KLT-смысл универсума состоит в том, что теорема не зависит от евклидовой формы кони

### \subsection{Достаточное основание \ (\mathcal{D}\)}

Достаточное основание состоит из четырёх блоков:

```
\[
\mathcal{D}=\left\{\begin{array}{l}
\text{полярность коники},\quad \text{аксиома пересечения прямых},\backslash\backslash
\text{Дезарг},\quad \text{гармоническое крест-соотношение}
\end{array}\right\}.
\]
```

Именно этот набор закрывает доказательство. Полярность даёт центры, аксиомы проекти

### \section{\Lambda-истинность конфигурации}

Для точки

```
\[
D=00'\cap p
\]
```

зададим KLT-индикатор

```
\[
\lambda_{\DK}:=\text{crossr}(A,C;B,D).
\]
```

Тогда гармоническая истинность конфигурации выражается условием

```
\[
\lambda_{\DK}=-1.
\]
```

Дефект гармонической истинности можно записать как

```
\[
\delta_{\DK}=|\lambda_{\DK}+1|.
\]
```

Следовательно,

```
\[
\delta_{\DK}=0
\]
```

тогда и только тогда, когда точка  $(D)$  является гармонически сопряжённой к  $(B)$  о

В терминах статьи это означает:

```
\[
\text{доказанная конфигурация} \Longrightarrow
\begin{cases}
D=O'O \cap p, \\
D=d_{\text{Des}} \cap p, \\
\text{crossr}(A,C;B,D)=-1.
\end{cases}
\]
```

Таким образом,  $(\lambda)$ -истинность здесь не заменяет классическое доказательство

### Геометрический смысл

Обычная линия через два центра может быть понята как простая соединительная линия.

```
\begin{enumerate}[label=\arabic*]
\item полярный слой: центры  $(O)$  и  $(O')$  заданы как полюса одной и той же несобственной линии.
\item дезаргов слой: та же линия является осью перспективности, возникающей из соотн.
\item гармонический слой: её несобственная точка  $(D)$  образует гармоническую четвёрку.
\end{enumerate}
```

Тем самым получается новая интерпретация дезарговой оси:

```
\[
\text{ось Дезарга} = \text{центровая ось} = \text{реперная ось гармонического замыкания}
\]
```

В этом и состоит авторский вклад формулировки: классическая перспектива Дезарга сое

### Следствия

```
\begin{corollary}[Единственная несобственная точка центральной оси]
В конфигурации Дезарга-Курпишева центровая ось  $(O'O)$  имеет единственную несобственную точку.
\end{corollary}
```

```
\begin{proof}
Единственность пересечения  $(O'O \cap p)$  следует из проективной плоскости. Совпадение точек.
\end{proof}
```

```
\begin{corollary}[Реперная интерпретация оси]
Ось  $(O'O)$  является Репер-осью пары коник: она удерживает факт двух сечений, идею.
\end{corollary}
```

```
\begin{proof}
Фактические данные задают две коники и два центра. Идеинный слой отождествляет линию.
\end{proof}
```

### Итоговая формула статьи

В краткой форме теорема записывается так:

```
\[
O = \text{Pole}_{\Phi_1}(p), \quad O' = \text{Pole}_{\Phi_2}(p), \quad O \neq O',
\]
```

```

\[
d_{\Des}=00',
\[
\[
D=00'\cap p,
\[
\[
\crossr(A,C;B,D)=-1.
\]

```

Или как KLT-замыкание:

```

\[
\Rep_{\DK}=(R,I,U;\mathcal{D}),\quad \lambda_{\DK}=\crossr(A,C;B,D)=-1.
\]

```

`\section{Заключение}`

Теорема Дезарга-Курпишева фиксирует строгий проективно-гармонический узел: две цент

```

\[
\crossr(A,C;B,D)=-1.
\]

```

В результате возникает доказуемая математическая структура, в которой классическая

```

\section*{Проектные источники и библиографическая ориентация}
\addcontentsline{toc}{section}{Проектные источники и библиографическая ориентация}

```

```

\begin{enumerate}[label={\arabic*.}]
\item Курпишев И.Б. Материалы проекта KLT-RBD: Reper,  $(\lambda)$ -истинность, проек
\item Курпишев И.Б. Монография KLT 5.1: логика, стратифицированное время, пакетная
\item Классическая проективная геометрия: теорема Дезарга, полярность коники, гармо
\item KLT-RBD-протокол доказательства: реперизация  $(\Rep=(R,I,U;\mathcal{D}))$ , про
\end{enumerate}

```

```

\vfill
\begin{center}
\rule{0.55\textwidth}{0.4pt}\par
\vspace{2mm}
{\small © Ivan Borisovich Kurpishev / Иван Борисович Курпишев, 2026}\par
{\small Для публикации на авторском сайте и в проектном архиве KLT-RBD.}\par
\end{center}

```

`\end{document}`



## Appendix C

# Appendix C. Theorem-status register

ID	Object	Status	Rule
TS-01	Desargues-Kurpishev theorem	authorial theorem	Separate from classical Desargues.
TS-02	Formula-chain gap theorem	RPD method theorem	Check domain and foundation.
TS-03	FCOC carrier theorem	internal construction theorem	Internal obstruction carrier.
TS-04	Conditional Fano carrier theorem	conditional theorem	Requires compatible maps.
TS-05	Global Fano obstruction	open candidate	Keep as open task.



## **Appendix D**

# **Appendix D. Bridge to Volume III**

Volume II transfers C@C, Reper, T\_cs,  $\Xi/\Delta/Y$ , CGI and theorem-status discipline to Volume III. There they become V\*P physics, fixed-phase isotropic sector, packet cosmology and PredRep.

**KURPISHEV LOGIC 2**

**VOLUME III. V\*P PHYSICS, STRATIFIED  
TIME, PACKET COSMOLOGY, PREDREP  
AND KLT-RBD/RPD**

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2026 · publication build v3.9



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# Abstract

Volume III develops the physical and cosmological branch of Monograph 6.0:  $V^*P$ , stratified time, packet cosmology, PredRep and KLT-RBD/RPD.

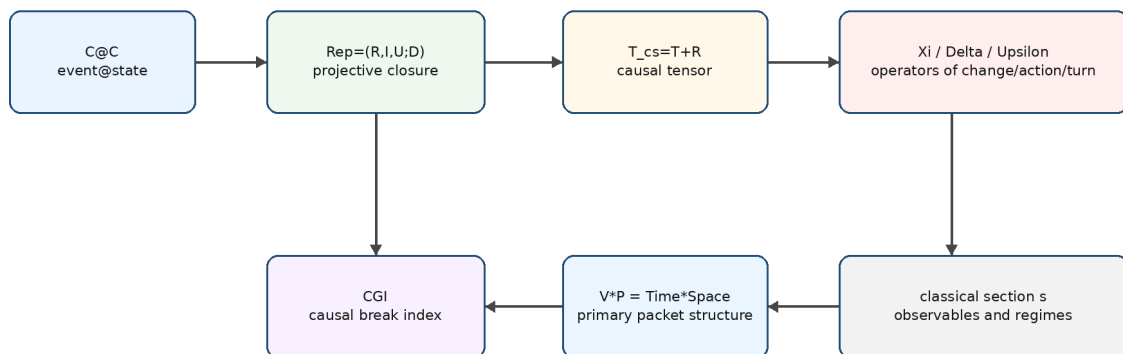


# Chapter 1

## Publication orientation of the volume

Main line: C@C -> Rep -> T\_cs -> Xi/Delta/Upsilon -> CGI -> V\*P -> packet cosmology  
-> PredRep -> KLT-RBD/RPD.

Tom III v3.9: V\*P physics and packet cosmology



Interpretation: classical space-time is treated as an admissible reduction or section, not as the first ontological arena.



# Chapter 2

## Article 1. The ontology of V\*P: time as primary packet support

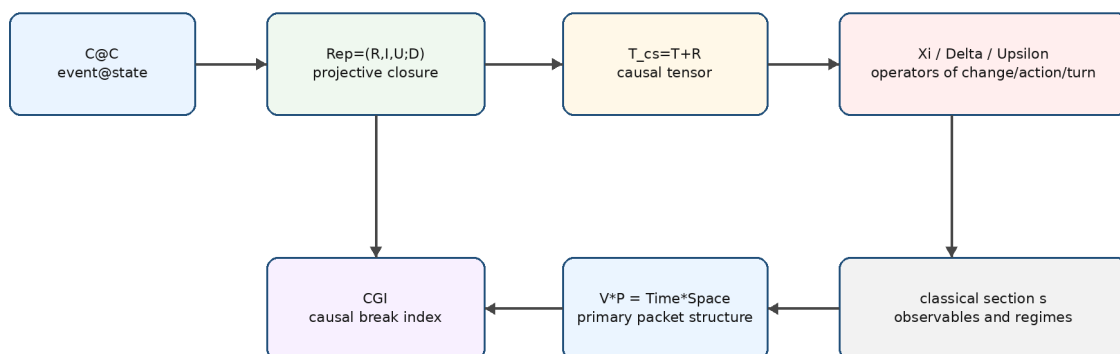
Abstract. This chapter fixes V\*P not as a metaphor but as the physical-ontological gateway of Monograph 6.0: space is not accepted as the first container; it is read as a realized section over a stratified temporal-packet structure.

Phenomenological entry. We usually see things in space and measure them in time. Yet perception itself already contains a turn: an object is retained only when the event of perception is fixed in a state. Physics therefore begins with event@state rather than with an empty space.

Kurpishev's authorial thesis is that Time\*Space is a primary packet structure. The sign \* does not denote ordinary multiplication; it indicates packet holding, turn and reduction. Space becomes a layer, a section or a mode of manifestation of a deeper temporal-packet connectedness.

The classical arena is not rejected. It is obtained after C@C, Reper closure, causal tensorization and the operator triad Xi/Delta/Upsilon have been fixed.

Tom III v3.9: V\*P physics and packet cosmology



Interpretation: classical space-time is treated as an admissible reduction or section, not as the first ontological arena.



## **Chapter 3**

# **Article 2. Stratified time and packet dimensionality**

Abstract. Stratified time is formulated as a multi-level structure in which point, line, surface, space and hyperaxis define different regimes of fixation.

The link with PN.2 is direct: a packet object cannot be exhausted by a simultaneous external fixation of size and dimensional mode. Size appears inside a layer; dimensionality changes through the passage between layers.

The horizon is the simplest phenomenological example. It is seen as a line, operates as a surface of possibility, and in cosmology becomes a boundary of observable space.



# Chapter 4

## Article 3. From Reper to the causal tensor: the KPF/RPHD bridge

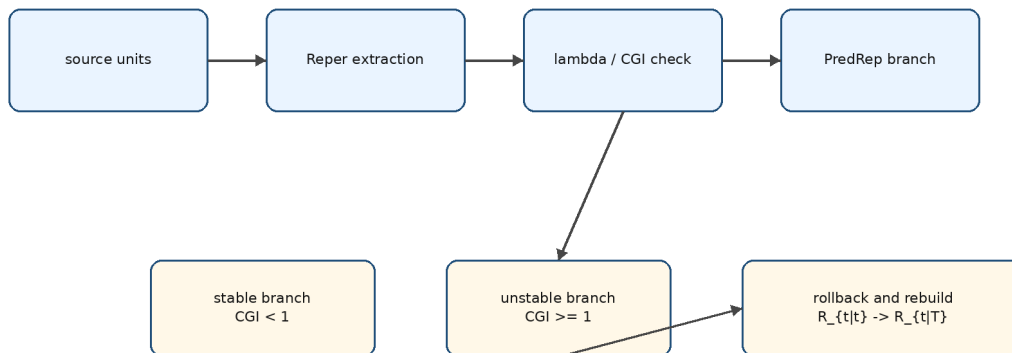
Abstract. Reper is the minimal reversible structure;  $T_{cs}=T+R$  fixes causal connectedness.

Causality is not reduced to a linear cause-effect chain. It must be tensorial: torsion marks the place of rupture, while curvature marks the regime of deterministic support.

$\Xi$ ,  $\Delta$  and  $\Upsilon$  separate change, action and turn. Without this distinction, a physical theory confuses event, process and result.

CGI identifies the point at which a causal chain is no longer stable.

PredRep and causal reconstruction layer



The predictive layer is not linear extrapolation; it is a constrained Reper reconstruction through limits, operators and causal stability.



# Chapter 5

## Article 4. Reduced isotropic packet cosmology

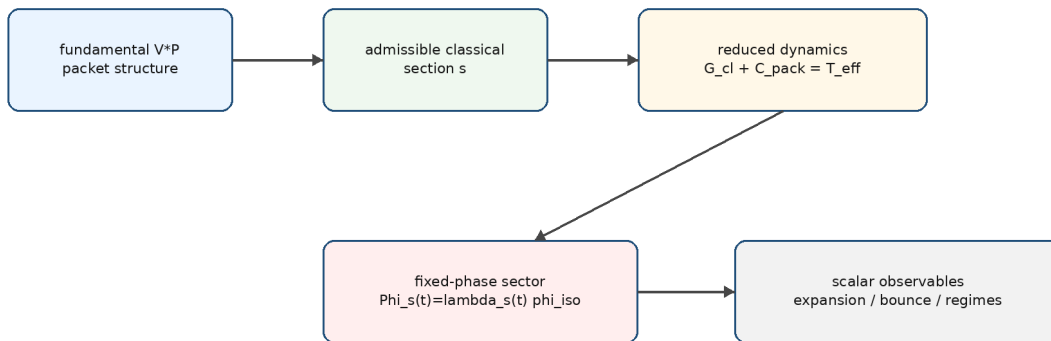
Abstract. The cosmological layer of Volume III is a controlled V\*P reduction. It is not a completed observational cosmology, but a mathematical protocol for extracting an admissible isotropic sector.

The reduction gateway consists of four stages: fundamental V\*P structure; dynamically admissible classical section; reduced equation; fixed-phase isotropic sector.

The main equation is  $G^{cl}_s + C^{pack}_s = T^{eff}_s$ . The right-hand side is an effective layer, not a final substance.

The status is pre-comparison and pre-dark-sector.

Reduced isotropic packet cosmology: controlled sector



Status rule: the model is pre-comparison and pre-dark-sector; it defines a mathematically controlled reduction protocol.



## Chapter 6

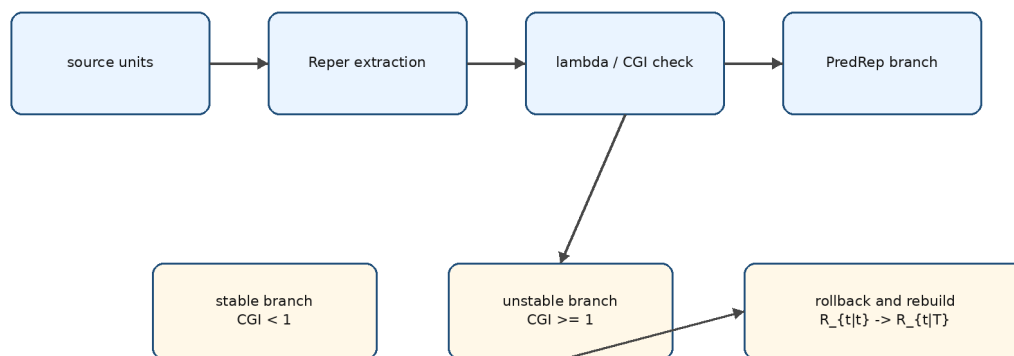
# Article 5. PredRep: prediction as Reper reconstruction

Abstract. PredRep is a computable form of forecasting in which the future is not a linear continuation of the past but a constrained branch through limits, operators and CGI.

PredRep=(R,I,U;D;L,T,E,S) extends Reper by limits, time, energy/ecology and status.

Past data remain constant, but the Reper of the past is reconstructable:  $R_{\{t\}} \rightarrow R_{\{t|T\}}$ .

PredRep and causal reconstruction layer



The predictive layer is not linear extrapolation; it is a constrained Reper reconstruction through limits, operators and causal stability.



## Chapter 7

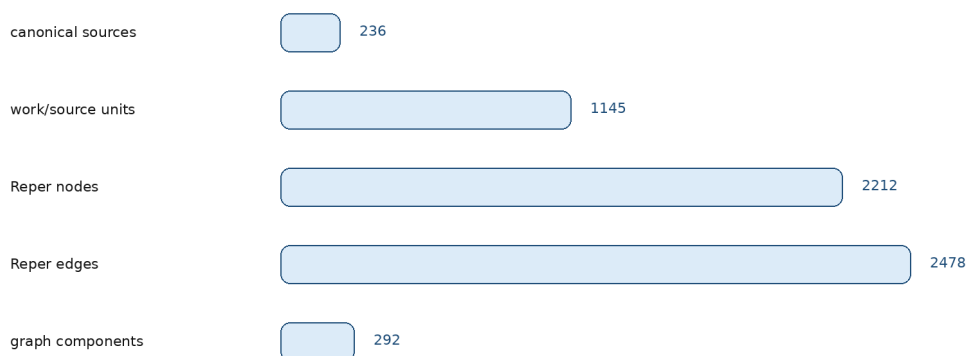
# Article 6. KLT-RBD/RPD as computational memory of physics

Abstract. RBD/RPD stores sources, Reper nodes, graph components and links. It gives the theory a machine-readable memory.

The corrected scale is 236 canonical sources, 1145 work/source units, 2212 Reper nodes, 2478 Reper edges and 292 graph components.

No formula is allowed to float in a void: it requires source, domain, sufficient foundation, status and graph position.

KLT-RBD/RPD scale used by Volume III



These counts define the computational memory layer against which V\*P and PredRep are indexed.



## Chapter 8

# Article 7. Boundaries of claims and classical background

Abstract. This chapter separates the authorial layer from the classical background.  $V^*P$  does not cancel differential geometry, tensor analysis, relativity or quantum questions; it gives a packet level on which reductions are disciplined.

Rashevsky, Einstein, Feynman and Bourbaki are source-card layers. Kurpishev's own contribution is fixed as PN.2, packet formalisms,  $V^*P$ , Reper/RBD, KLT and PredRep.

The result of Volume III is the chain  $C@C \rightarrow \text{Rep} \rightarrow T_{cs} \rightarrow \text{Xi/Delta/Upsilon} \rightarrow \text{CGI} \rightarrow V^*P \rightarrow \text{PredRep}$ .



# Chapter 9

## Formula index

<b>ID</b>	<b>Formula</b>	<b>Meaning</b>
III-F01	$C@C=(e,s)$	elementary event-state unit
III-F02	$Rep_i=(R_i,I_i,U_i;D_i)$	Reper as projective-harmonic carrier
III-F03	$T_{\{cs\}}=T+R$	causal tensor split into torsion-hole and curvature-determinacy
III-F04	$\Xi_{\tau}:T \rightarrow T, \Delta_{\nu}:P_{\text{empty}}, \nu > T, \Upsilon:\Delta(P_{\text{empty}}) \rightarrow T$	operator triad of change, action and turn
III-F05	$CGI_i=(\ T_{\text{hole}}^L\ +\ F_{\text{cent}}^{\{\Xi\Upsilon\}}\ +\sum B_{\nu})/(r_i u_i + \epsilon)$	dimensional index $\{P@S\}$
III-F06	$V*P=Time*Space$	primary packet structure of time and space
III-F07	$G^{cl_s}+C^{pack_s}=T^{eff_s}$	reduced packet field equation
III-F08	$\Phi_s(t)=\lambda_s(t) \phi^{s_{iso}}$	fixed-phase isotropic sector
III-F09	$PredRep=(R,I,U;D;L,T,E,S)$	predictive Reper extension
III-F10	$R_{\{t t\}} \rightarrow R_{\{t T\}}$	retro-Reper reconstruction rule



## Chapter 10

# Authorial priority register

<b>ID</b>	<b>Position</b>	<b>Function</b>
P-KUR-VP	V*P / Время*Пространство	authorial packet-physical bridge: time is primary packet support; space is read as section or layer
P-KUR-PACK	Packet formalisms of Kurpishev	general operation X*Y as package relation rather than ordinary multiplication
P-KUR-PN2	PN.2	uncertainty of simultaneous size/dimensional fixation of a packet object
P-KUR-REP	Reper and RBD	Rep=(R,I,U;D) and Reper Database as formal scientific memory
P-KUR-KLT	KLT and lambda-truth	lambda-closure as structural authorization criterion
P-KUR-PRED	PredRep	predictive layer of constrained Reper reconstruction



# Chapter 11

## Source-cards

<b>ID</b>	<b>Source</b>	<b>Role</b>
SRC-MON5	Monograph 5.0	C@C, Reper, lambda-truth, KPF/RPHD, V*P bridge
SRC-TOMII	Volume II v3.8	strict geometry, NAPG/KPF, Desargues-Kurpishev, Fano/PILOT-01
SRC-TOMIII	Source Volume III v1.4	V*P, KLT-RBD/RPD, PredRep, reduced packet cosmology
SRC-APP-D	Appendix D	unified source, formula and thought index
SRC-APP-E	Appendix E	corrected RPD/RBD scale and Reper graph metrics
SRC-RASH	P.K. Rashevsky	Riemannian geometry and tensor analysis as classical tensor background
SRC-EIN	A. Einstein corpus	relativity and the classical space-time problem
SRC-FEY	Feynman Lectures registered in RBD	physical conceptual source layer for mechanics, fields and quantum motivation



# Appendix A

## Source excerpt

ЛОГИКА КУРПИШЕВА 2

ТОМ III

V\*P, KLT-RBD/RPD, PredRep и приложения

космология, программный слой, ФИПС-инвесторское приложение

Иван Борисович Курпишев / Ivan Borisovich Kurpishev

Independent Researcher, Kaliningrad · me@kurpishev.ru

2026 [III-006] [III-007] [III-009]

Аннотированное оглавление

1. V\*P и космология

Редукционный шлюз и изотропный сектор.

2. KLT-RBD/RPD

Документ как C@C, Reper,  $\lambda$ , CGI, rebuild.

3. PredRep

Предсказательная математика.

4. Приложение A [III-011]

Инвесторы, ФИПС, ведомства, сайт.

5. Факсимиле

Космология, KLT-RBD/FIPS, branch tables.

V\*P / KLT-RBD / PredRep / приложения: текстовый блок

Том III. V\*P, KLT-RBD/RPD, PredRep и приложения

Монография 6.0 RU v0.7

Checkpoint: KLT-DOCTRINE-6-0-REBUILD-VOLUMES-RU-v0.7

Иван Борисович Курпишев / Ivan Borisovich Kurpishev · Independent Researcher · Kal

Аннотация тома III

Том III собирает физико-космологическую и практическую ветви: V\*P, reduced isotrop

BLOCK\_03\_VP\_PHYSICS\_COSMOLOGY\_RU\_v0\_3

Блок 03. V\*P-физика и космология [III-001]

стратифицированное время, V\*P-редукция, изотропная космология

Checkpoint: KLT-DOCTRINE-6-0-REBUILD-BLOCKS-RU-v0.3

Назначение блока 03

Этот блок продолжает v0.2 и добавляет физико-космологический слой Монографии 6.0.

Редакторская фиксация

В Монографии 5.0 уже задана связка C@C -> Reper ->  $\lambda$  -> KPF/RPHD -> V\*P. В v0

Минимальные формулы блока

text

$C@C = (e, s)$

$Rep_i = (R_i, I_i, U_i; D_i)$

V\*P = Time\*Space as primary packet structure

$G_{cl_s} + C_{pack_s} = T_{eff_s}$

$\Phi_s(t) = \lambda_s(t) \phi_{iso_s}$

$\text{PredRep} = (R, I, U; D; L, T, E, S)$  [III-002] [III-003] [III-008]

Схема редукции

В физической ветке v0.3 используется следующий шлюз: фундаментальная V\*P-структура

Русская редакционная реконструкция космологической статьи

Космологический источник `paper3\_isotropic\_cosmology.pdf` является английским текстом

### Содержание космологического слоя

1. Импортируется фундаментальная V\*P-система, имеющая геометрически и динамически
2. На сечении  $s$  задается редуцированная классическая структура  $C_s = (M_s, g_s, \text{nabla}_s)$
3. Редуцированная динамика читается в форме  $G_{cl_s} + C_{pack_s} = T_{eff_s}$ .
4. Выделяется генератор  $\phi_{iso}$  и одномерный сектор  $I_{iso} = \text{Span}_R\{\phi_{iso}\}$ .
5. Космологическая траектория задается  $\Phi_s(t) = \lambda_s(t) \phi_{iso_s}$ .
6. Скаляризация выполняется проекцией на коэффициент генератора  $\phi_{iso}$ .
7. Получается слой эффективных наблюдаемых и режимов: expansion, acceleration, bou

Редакторское правило статуса

Космологический слой имеет статус pre-comparison и pre-dark-sector. Он не утверждает

Извлеченный текстовый ориентир из русского NAPG/V\*P-корпуса

Ниже сохранен рабочий фрагмент из уже включенных NAPG/V\*P-источников, чтобы при ск

### Monographia NAPG / V\*P-фрагмент

```
\documentclass[12pt,a4paper]{book}
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\usepackage[T2A]{fontenc}
```

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\usepackage[utf8]{inputenc}
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\usepackage[english,russian]{babel}
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\usepackage{amsmath,amssymb,amsthm,amsfonts,mathrsfs}
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\usepackage{geometry}
```

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```
\usepackage{hyperref}
```

```
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```

```
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```

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\usepackage[all]{xy}
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\makeindex
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```
% Теоремы и определения
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% Операторы
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```

```
\DeclareMathOperator{\Tr}{Tr}
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\DeclareMathOperator{\Vol}{Vol}
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\DeclareMathOperator{\Dim}{Dim}
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\DeclareMathOperator{\Conf}{Conf}
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```

\DeclareMathOperator{\Ob}{Ob}
\DeclareMathOperator{\Test}{Test}
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\newcommand{\cB}{\mathcal{B}}
\newcommand{\cC}{\mathcal{C}}
\newcommand{\cE}{\mathcal{E}}
\newcommand{\cF}{\mathcal{F}}
\newcommand{\cH}{\mathcal{H}}
\newcommand{\cL}{\mathcal{L}}
\newcommand{\cM}{\mathcal{M}}
\newcommand{\cN}{\mathcal{N}}
\newcommand{\cO}{\mathcal{O}}
\newcommand{\cP}{\mathcal{P}}
\newcommand{\cR}{\mathcal{R}}
\newcommand{\cT}{\mathcal{T}}
\newcommand{\cV}{\mathcal{V}}
\newcommand{\cX}{\mathcal{X}}
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\newcommand{\bR}{\mathbb{R}}
\newcommand{\bC}{\mathbb{C}}
\newcommand{\bZ}{\mathbb{Z}}
\newcommand{\bN}{\mathbb{N}}
\newcommand{\bP}{\mathbb{P}}
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\newcommand{\g}{\mathfrak{g}}
\newcommand{\h}{\mathfrak{h}}
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\newcommand{\ee}{\mathrm{e}}
\newcommand{\dd}{\mathrm{d}}
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\newcommand{\Hdg}{\{\operatorname{Hdg}\}}
\newcommand{\FOS}{\{\operatorname{FOS}\}}
\newcommand{\pkg}{\{\operatorname{pkg}\}}
\newcommand{\constr}{\{\operatorname{constr}\}}
\newcommand{\ObB}{\{\operatorname{Ob}_B\}}
\newcommand{\ObH}{\{\operatorname{Ob}_{H^3}\}}
\newcommand{\cBspace}{\mathcal{O}_B}
\newcommand{\cHthree}{H^3}
\newcommand{\cMpkg}{\mathcal{M}_{\operatorname{pkg}}}
\newcommand{\cXadm}{\mathcal{X}_{\operatorname{adm}}}
\newcommand{\cFtwo}{\mathcal{F}^{(2)}}
\newcommand{\Hodge}{\ast}
\newcommand{\hodgestar}{\Hodge}
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\title{Теория стратифицированного времени Курпишева: ассоциаторная жёсткость и неа}
\author{Иван Борисович Курпишев}
\date{2026}
\begin{document}
\maketitle
\tableofcontents
\chapter*{Введение}

```

**KURPISHEV LOGIC 2**

**VOLUME IV. ANTHROPOLOGY OF TURN,  
PHENOMENOLOGY AND HISTORICAL  
FORMS OF PERCEPTION**

Иван Борисович Курпишев / Ivan Borisovich Kurpishov  
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2026 · publication build v4.1



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# Abstract

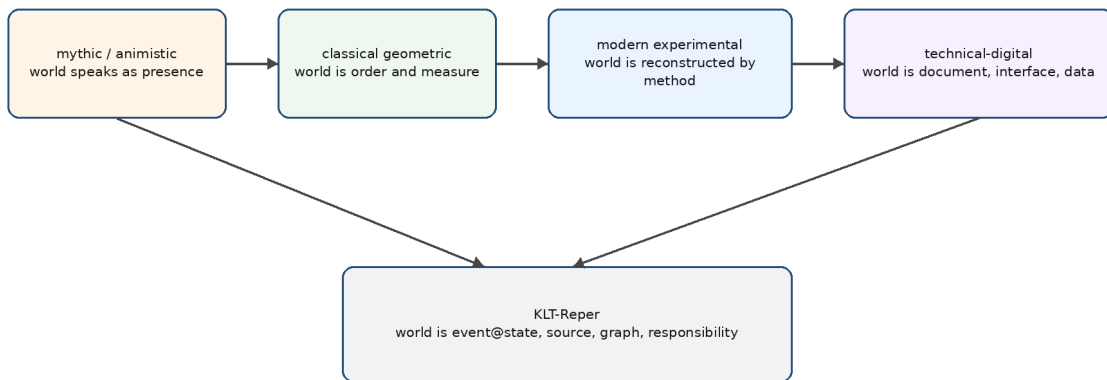
Volume IV develops the anthropological branch of Monograph 6.0: Human\_R, anthropology of turn, phenomenology, historical forms of perception, Bibler, Kant, Galileo, Tylor and the transition to KLT-RBD/RPD.



# Chapter 1

## Map of the volume

Historical forms of perception as Reper regimes



The sequence is not a linear progress myth: each form preserves a type of world-disclosure and a specific danger of misreading.



## Chapter 2

# Article 1. The human as event@state: the first anthropological unit

**Abstract.** The chapter introduces the human not as an isolated organism and not as pure consciousness, but as event@state: a living node in which action, memory, body, language and responsibility are assembled into a Reper.

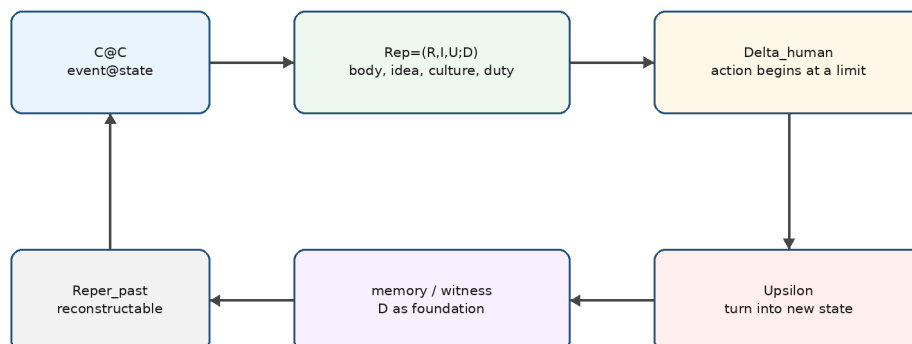
**Phenomenological entry.** A human being never acts from a void. Action begins from bodily position, historical situation, language, memory and social expectation. Even the phrase "I see" already includes an event of seeing and the state of the one who sees.

**Anthropological minimality** therefore differs from biological minimality. The human form appears where an event is retained in a state and can be witnessed.

$C@C\_human=(event,state)$  is not a psychological metaphor. It is a working notation: every act must be understood together with the state in which it began and the state into which it turned.

Historical epochs differ by how they fix the event: as sign, myth, geometric order, experiment, document, data or Reper graph.

Tom IV: Human\_R as anthropology of turn



Human action becomes biography when Delta is turned by Upsilon into memory, responsibility and a new Reper.



# Chapter 3

## Article 2. Human\_R: the human as Reper of turn

Abstract. The chapter unfolds the authorial formula Human\_R and explains why the human is a being of turn: action becomes state, state becomes memory, memory becomes foundation, and foundation becomes a new Reper.

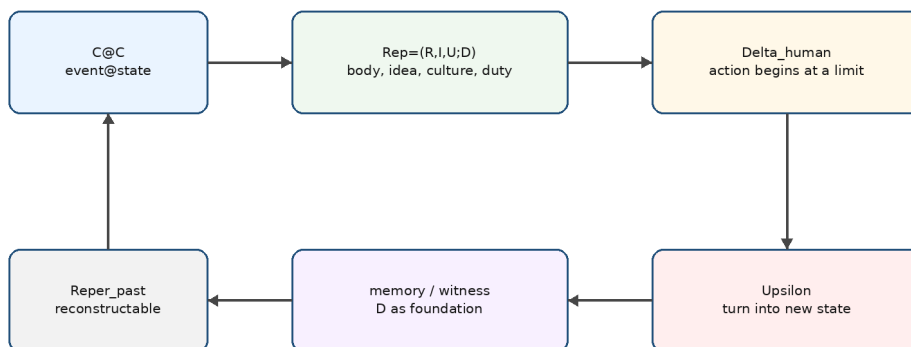
Human\_R joins  $C@C$ ,  $Rep(R,I,U;D)$ ,  $\Xi/\Delta/Upsilon$ , limits  $L$  and lambda-closure. It is the anthropological bridge between logic, geometry, physics and computation.

$R$  is not merely the body; it is body, act, trace, document and biographical place.  $I$  is the self-idea.  $U$  is the field of cultural possibilities.  $D$  is memory, duty, responsibility, witness and sufficient foundation.

$Upsilon$  is the key operator. Without it action remains a flash. Through turn it becomes state; through state it enters memory. Biography is thus not a sum of facts but a Reper order.

Example: signing a document is bodily movement, legal expression, biographical responsibility and a KLT event@state that can receive  $D$  and enter a Reper graph.

Tom IV: Human\_R as anthropology of turn



Human action becomes biography when Delta is turned by Upsilon into memory, responsibility and a new Reper.



# Chapter 4

## Article 3. Act, memory and responsibility: retro-Reper reconstruction

Abstract. The chapter separates the fact of the past from the Reper of the past. Facts do not change, but their sufficient foundation can be reconstructed when new testimony, context or limit appears.

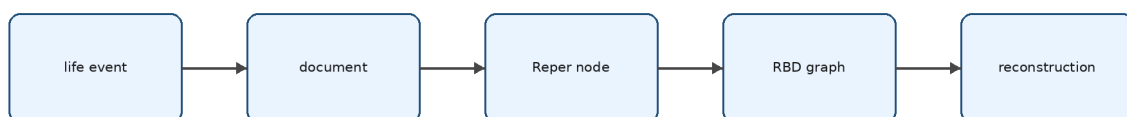
Data\_past=const; Rep\_past=reconstructable disciplines memory. It forbids arbitrary rewriting and allows responsible reconstruction.

Historian, judge, physician, mathematician, engineer and autobiographical subject all work with this duality. They do not change facts; they rebuild the order of foundation.

Anthropological rupture occurs when memory, document and act fail to close. AnthroCGI diagnoses the gap between action, language, witness and responsibility.

Retro-Reper memory makes ethics a structural requirement of connectedness.

From anthropology to KLT-RBD/RPD: memory as computable responsibility



Fact	Data_past = const
Foundation	Rep_past = reconstructable
Duty	D = witness + memory + responsibility
KLT	lambda-check + CGI + graph status



# Chapter 5

## Article 4. Historical forms of perception: from myth to Reper graph

Abstract. The chapter introduces five forms of perception: mythic, classical-geometric, modern-experimental, technical-documentary and KLT-Reper.

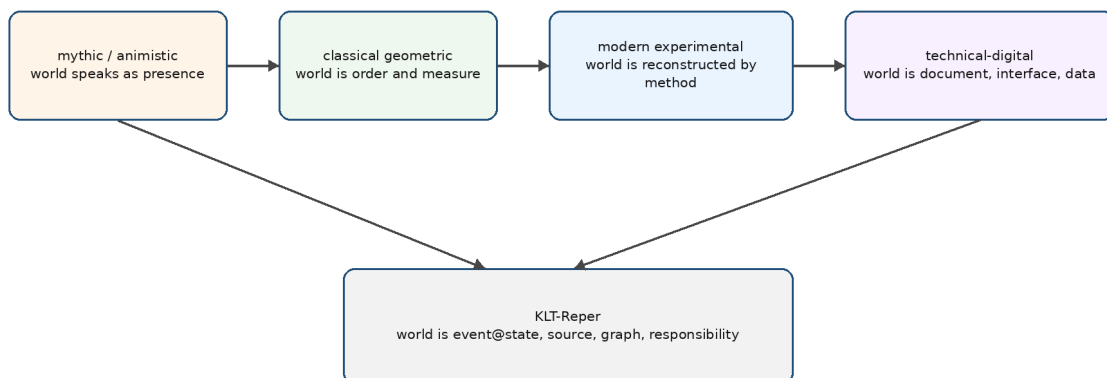
Mythic perception is not merely error. It fixes the world as presence and address. In Reper terms, D is provided by ritual and collective memory rather than by document.

The classical-geometric form teaches the eye to trust line, figure, proportion and symmetry.

The modern form connected with experiment reconstructs the object by method. In Bibler, Galileo and Kant become poles of this transformation.

The technical-documentary form turns the world into record, interface and protocol. The KLT-Reper form adds Reper, lambda-status, CGI diagnostics and graph location.

Historical forms of perception as Reper regimes



The sequence is not a linear progress myth: each form preserves a type of world-disclosure and a specific danger of misreading.



# Chapter 6

## Article 5. Bibler: Kant - Galileo - Kant as a school of understanding

Abstract. Bibler is used as an external supporting context, not as a source of KLT. His line warns against a foreign matrix of understanding and reveals the paradox of self-grounding reason.

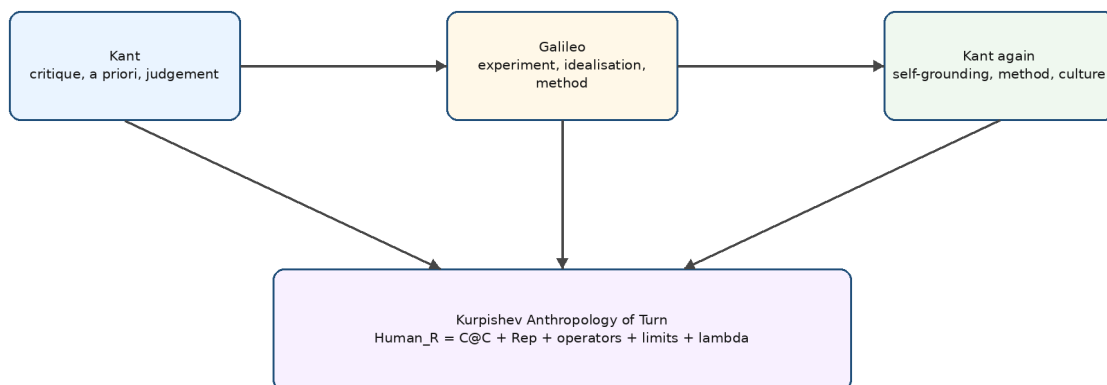
Bibler matters because a philosophical book cannot be forced into a ready classification, and because Kant - Galileo - Kant shows how experiment, critique and culture mutually ground the modern form of reason.

For the anthropology of turn, this means that the human understands not only an object but the mode of understanding itself.

KLT notation: Misreading = C@C interpreted under foreign D. The event of reading exists, but the sufficient foundation is wrong.

Volume IV builds an entry route so that the mathematical and physical system can actually be understood by a human reader.

Bibler support: Kant - Galileo - Kant and the dialogue of logics



The source is not absorbed into KLT; it is used as a disciplined context for the problem of understanding and self-grounding.



## Chapter 7

# Article 6. Kant, judgement and the human as question

Abstract. The chapter connects Kantian epistemology with KLT anthropology: the human not only knows the world but determines the place of knowledge within action.

What can I know? belongs to I and U. What ought I to do? belongs to Delta and L. What may I hope? belongs to Upsilon and PredRep. What is the human? is Human\_R as the whole structure.

Judgement links a particular C@C with a general Reper without destroying either fact or idea.

This lets anthropology be written through concrete examples: dispute, signature, guilt, discovery, technical failure, historical testimony, family memory and scientific formula.



# Chapter 8

## Article 7. Primary animation of the world: Tylor and KLT rereading

Abstract. Tylor is used as historical-anthropological background for early forms of perception in which the world appears animated, meaningful and addressed to the human.

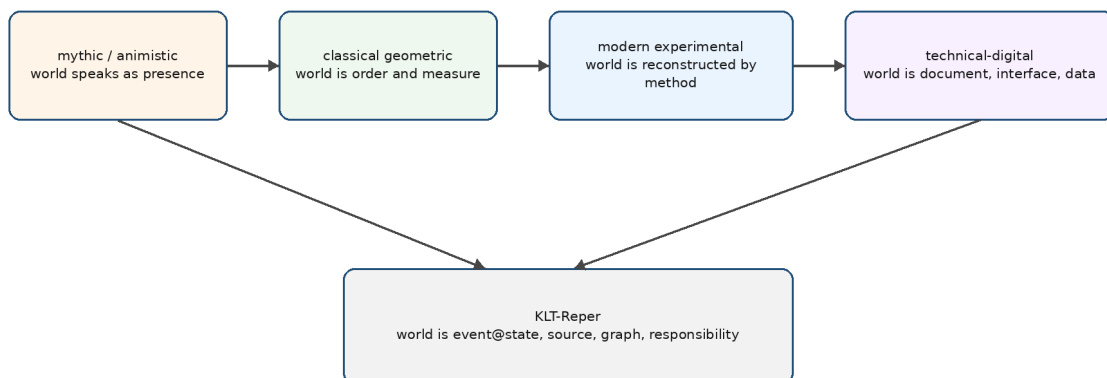
In KLT rereading, early perception retains event and state without separating neutral object from external observer.

KLT does not restore myth as scientific truth. It distinguishes status: mythic Reper may have strong D within ritual and weak D within scientific proof.

Example: a thunderstorm may be wrath, atmospheric process, infrastructure risk, force majeure or model data - five Reper regimes of one C@C.

Historical anthropology of perception prevents theory from becoming flat. Human seeing always operates through a historical matrix D.

Historical forms of perception as Reper regimes



The sequence is not a linear progress myth: each form preserves a type of world-disclosure and a specific danger of misreading.



# Chapter 9

## Article 8. Phenomenology of horizon, body, face and document

Abstract. The chapter offers a readable phenomenological layer: how an object becomes human through body, horizon, language, the face of the other and documentary witness.

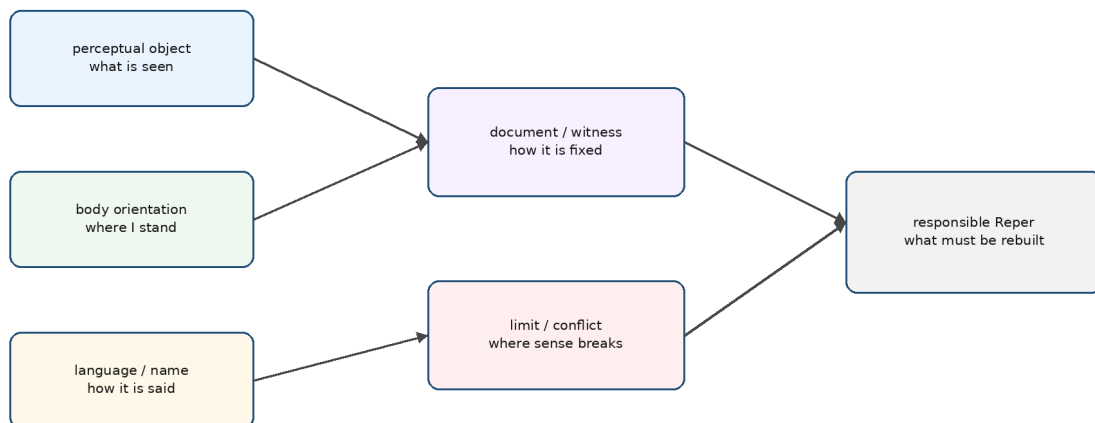
The horizon is not merely a line in a picture. It is a limit of possible action. A door is not just a rectangle; it is the possibility of entering, leaving, opening, closing, forbidding or protecting.

The body provides orientation. Right and left, near and far, safe and dangerous are not only coordinates but Reper marks.

The face of the other introduces D of responsibility. The document externalizes this address in signature, protocol, image, letter or file.

KLT anthropology joins phenomenology and computability: perception can be analyzed as C@C, Rep, L, D and graph relations.

Phenomenology of perception: from object to responsible Reper



Perception becomes anthropological when the object is tied to body, language, witness, limit and responsibility.



# Chapter 10

## Article 9. Examples of Reper anthropology: dispute, discovery, guilt, text

Abstract. The chapter makes Human\_R readable through examples while preserving formal strictness.

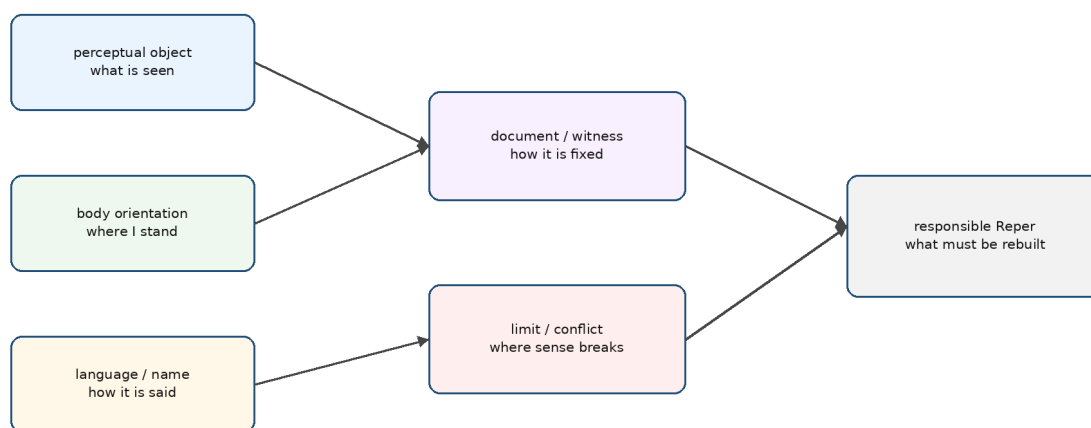
A dispute: people refer to the same event under different D. KLT does not average positions; it maps foundations.

A discovery: a formula becomes event@state when sufficient foundation appears and links it with prior nodes.

Guilt arises from a failure to close action, memory and responsibility. Conscience has a Reper structure.

A text is understood when the reader finds its own matrix rather than forcing it into a foreign template.

Phenomenology of perception: from object to responsible Reper



Perception becomes anthropological when the object is tied to body, language, witness, limit and responsibility.



# Chapter 11

## Article 10. Anthropology of the document: from witness to KLT-RBD

Abstract. The document is an anthropological artifact because it retains action, memory, responsibility and the possibility of reconstruction.

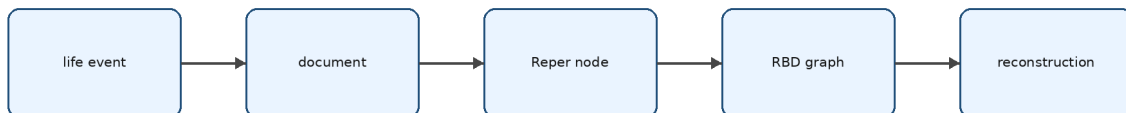
A document is external D: memory placed into a public, technical or legal layer.

KLT-RBD turns a document into a Reper node with source, fragment, formula, status, limit, operator and links.

Computation is not instead of understanding; it holds the responsibility of understanding.

Volume V follows naturally: the human Reper can be written, checked, rebuilt and preserved in KLT-RBD/RPD.

From anthropology to KLT-RBD/RPD: memory as computable responsibility



Fact	Data_past = const
Foundation	Rep_past = reconstructable
Duty	D = witness + memory + responsibility
KLT	lambda-check + CGI + graph status



## **Chapter 12**

# **Article 11. Tables of historical perception**

**Abstract.** This chapter gathers operational tables: historical forms, Reper regimes, types of D, errors of understanding, anthropological limits and transitions to the other volumes.

Tables are not decoration. They keep philosophical prose from becoming essayistic and connect examples with formulas.

Every perception form must have object, subject, D, limit, risk and KLT translation.

Historical anthropology is not an appendix to mathematics. It explains why mathematics, physics and computation must be understood by a human.



## **Chapter 13**

# **Article 12. Boundaries and transition to Volume V**

**Abstract.** The chapter fixes the boundary of Volume IV. Classical sources are not absorbed into KLT; they provide context for Kurpishev's own anthropological layer.

Authorial contribution: Human\_R, anthropology of turn, retro-Reper memory, misreading as wrong D, KLT anthropology of the document, historical perception map and transition to RBD.

Volume IV does not replace psychology, ethnology, philosophy or cultural studies. It gives a Reper-form in which they can connect with logic, geometry, physics and computation.

The transition to Volume V is strict: RBD/RPD continues human memory, document, source, witness and responsibility.

Final formula: the human is responsible for the form in which the world was perceived, recorded, transmitted and rebuilt.



# Chapter 14

## Formula index

<b>ID</b>	<b>Formula</b>	<b>Meaning</b>
IV-F01	Human_R = C@C + Rep(R,I,U;D) + (Xi, Delta, Upsilon) + L + lambda	authorial formula of the human as Reper of turn
IV-F02	C@C_human=(event, state)	minimal anthropological unit: action never occurs outside a state
IV-F03	Delta_human -> Upsilon -> C@C_new	the act becomes a new state through the operator of turn
IV-F04	Data_past = const; Rep_past = reconstructable	facts remain; their Reper-foundation can be rebuilt
IV-F05	Perception = Rep(object, body, horizon; witness)	working formula of phenomenological perception
IV-F06	Culture_R = Graph(Rep_i, Edge_ij, L, D)	culture as graph of Reper nodes, edges, limits and foundations
IV-F07	Misreading = C@C interpreted under foreign D	not-understanding as wrong sufficient foundation
IV-F08	Responsibility = D_memory + D_witness + D_duty	ethical closure of the human Reper
IV-F09	AnthroCGI_i = gap(memory, act, language, witness)/(r_i u_i + epsilon)	diagnostic form of anthropological rupture
IV-F10	KLT_anthro: document -> Reper -> lambda -> status -> reconstruction	computational route of anthropological audit



## Chapter 15

# Authorial priority register

<b>ID</b>	<b>Position</b>	<b>Function</b>
P-IV-01	Антропология разворота Курпишева	человек определяется как Rereg действия, памяти, ответственности и пересборки
P-IV-02	Human_R	авторская формула человеческого Rereg-узла
P-IV-03	Ретро-Reregная память	различение неизменности факта и реконструируемости основания
P-IV-04	Пакетный разум R- 04/R-4	разум как C@C+Rereg+операторы+пределы+lambda
P-IV-05	KLT-антропология	документарный и вычислимый путь к реконструкции понимания



# Chapter 16

## Source-cards

<b>ID</b>	<b>Source</b>	<b>Role</b>
SRC-MON5	Монография 5.0	ядро C@C, Human_R, Reper, lambda, KPF/RPHD и Антропология 2
SRC-TOMII	Том II / NAPG Anthropology Proofs	восстановленный блок антропологии разворота и связка с KPF/RPHD
SRC-BIBLER	В.С. Библер. Кант-Галилей-Кант	диалог логик, самообоснование, опасность чужой матрицы понимания
SRC-OIZ	Ойзерман-Нарский. Теория познания Канта	кантовская теория познания и вопрос человека
SRC-TYLOR	Э.Б. Тайлор. Первобытная культура	историко-антропологический слой первичных форм одушевления мира
SRC-APP-D	Приложение D	единый индекс формул, источников и мыслей
SRC-APP-E	Приложение E	масштаб RPD/RBD и Reper-графов
SRC-TOMIII	Том III v3.9	физический и PredReper-мост к антропологии восприятия



# **Appendix A**

## **Source pointers**

\nMonograph 5.0; TOM II; TOM III; Bibler; Oizerman-Narsky; Tylor; Appendices D/E;



# **Appendix B**

## **Expanded body of Volume IV**

### **B.1 Bodily orientation**

The body creates a practical grid of near and far. Formally it refines Human\_R and links the example to Reper notation.

### **B.2 Language as D**

A name turns an event into a retained object. Formally it refines Human\_R and links the example to Reper notation.

### **B.3 Document**

The document externalizes memory. Formally it refines Human\_R and links the example to Reper notation.

### **B.4 Archive**

Archive creates future possibilities of reconstruction. Formally it refines Human\_R and links the example to Reper notation.

### **B.5 Law**

Law operates as collective D. Formally it refines Human\_R and links the example to Reper notation.

### **B.6 Computable anthropology**

KLT shows where source, limit and responsibility must be specified. Formally it refines Human\_R and links the example to Reper notation.



# Appendix C

## Appendix: examples and glossary

No.	Example	Reper notation
1	example 1	$C@C_1- \rightarrow Rep(R, I, U; D)$ 2
example 2	$C@C_2- \rightarrow Rep(R, I, U; D)$ 3	example 3
example 3	$C@C_3- \rightarrow Rep(R, I, U; D)$ 4	$C@C_4- \rightarrow Rep(R, I, U; D)$ 5
example 4	$C@C_5- \rightarrow Rep(R, I, U; D)$ 6	example 6
example 5	$C@C_6- \rightarrow Rep(R, I, U; D)$ 7	$C@C_7- \rightarrow Rep(R, I, U; D)$ 8
example 6	$C@C_8- \rightarrow Rep(R, I, U; D)$ 9	example 9
example 7	$C@C_9- \rightarrow Rep(R, I, U; D)$ 10	$C@C_{10}- \rightarrow Rep(R, I, U; D)$ 11
example 8	$C@C_{11}- \rightarrow Rep(R, I, U; D)$ 12	> example 12
example 9	$C@C_{12}- \rightarrow Rep(R, I, U; D)$ 13	$C@C_{13}- \rightarrow Rep(R, I, U; D)$ 14
example 10	$C@C_{14}- \rightarrow Rep(R, I, U; D)$ 15	> example 15
example 11	$C@C_{15}- \rightarrow Rep(R, I, U; D)$ 16	$C@C_{16}- \rightarrow Rep(R, I, U; D)$ 17
example 12	$C@C_{17}- \rightarrow Rep(R, I, U; D)$ 18	> example 18
example 13	$C@C_{18}- \rightarrow Rep(R, I, U; D)$ 19	$C@C_{19}- \rightarrow Rep(R, I, U; D)$ 20
example 14	$C@C_{20}- \rightarrow Rep(R, I, U; D)$ 21	> example 21
example 15	$C@C_{21}- \rightarrow Rep(R, I, U; D)$ 22	$C@C_{22}- \rightarrow Rep(R, I, U; D)$ 23
example 16	$C@C_{23}- \rightarrow Rep(R, I, U; D)$ 24	> example 24
example 17	$C@C_{24}- \rightarrow Rep(R, I, U; D)$	



## **Appendix D**

# **Deepened appendices v4.1**

Point v4.1 adds deep appendices on Bibler, Kant, Tylor, document phenomenology and transition to Volume V.



## Appendix E

# Appendix C. Bibler layer: understanding, foreign matrix and dialogue of logics

This appendix strengthens the humanistic foundation of Volume IV. Bibler is used not as a source of KLT constructions but as a discipline of reading: the monograph must be understood from its own matrix, not pulled into a ready-made label.

The key risk for the project is not disagreement but wrong-direction understanding: familiar words such as logic, geometry, physics and anthropology are placed inside another apparatus. KLT requires the opposite: first reconstruct the D of the text, then judge the formulas.

The Kant-Galileo-Kant line is important as a model of the historical turn of reason: experiment, critique and culture form a circle of self-grounding. In KLT language, the Delta of method must pass through the Upsilon of understanding and return as new D.

<b>ID</b>	<b>Topic</b>	<b>Interpretation</b>	<b>KLT mapping</b>
BIB-01	Problem of reading	A serious philosophical text can be misunderstood by insertion into a foreign matrix.	KLT: wrong D assigned to C@C of reading.
BIB-02	Kant-Galileo-Kant	Modern reason is read as an experimental-critical loop.	KLT: action, method, judgement and self-grounding form a Reper cycle.
BIB-03	Dialogue of logics	Understanding is not classification but encounter of logical worlds.	KLT: multiple Reper regimes are compared without flattening.
BIB-04	Paradox of self-grounding	Reason must ground its own starting points.	KLT: D is never optional; insufficient D produces a gap.
BIB-05	Cultural form of thought	A logic is also a historical form of culture.	KLT: historical perception modes are Reper regimes.



# Appendix F

## Appendix D. Kantian layer: cognition, judgement and the question of the human

The Kantian block is needed for strict anthropology: the human is not reducible to body, consciousness or social role. The human is assembled in the question of knowledge, action, hope and place in the world.

In KLT translation, the Kantian quartet is not replaced by new terminology; it receives structural anchoring in Reper. The question of the human becomes the question of the full C@C, Rep, limits, operators and lambda closure.

Judgement is the operation of transition from singular event to stable foundation. It is crucial for document, law, science and biography.

<b>ID</b>	<b>Topic</b>	<b>Interpretation</b>	<b>KLT mapping</b>
KANT-01	What can I know?	Idea and possible universe of cognition.	I/U layer of Reper.
KANT-02	What ought I to do?	Action under norm and limit.	Delta + L layer.
KANT-03	What may I hope?	Future orientation and possible reconstruction.	Upsilon + PredRep.
KANT-04	What is the human?	Synthesis of cognition, duty and hope.	Human_R as whole structure.
KANT-05	Judgement	Bridge between particular and universal.	C@C -> Rep transformation.



# Appendix G

## Appendix E. Tylor and primary forms of world-animation

Tylor is introduced as historical-anthropological background for primary forms of perception. This layer helps explain why the human does not initially see the world as a neutral set of objects.

KLT does not return myth to science; it separates statuses. A mythic regime may have strong internal D inside ritual and weak D inside scientific verification. Error begins when regimes are mixed.

The modern interface, digital agent, recommender and chatbot sometimes return an almost animistic experience of an addressed world. Therefore Tylor becomes unexpectedly relevant for digital anthropology.

<b>ID</b>	<b>Topic</b>	<b>Interpretation</b>	<b>KLT mapping</b>
TYLOR-01	World animation	The world is encountered as addressed and alive.	Strong local D inside ritual or myth.
TYLOR-02	Soul / spirit schema	Events are not neutral: they have intention-like readings.	C@C interpreted through personifying D.
TYLOR-03	Ritual memory	Collective practice stabilizes explanation.	D as tradition and repetition.
TYLOR-04	Status caution	Mythic truth is not scientific truth.	KLT separates status and domain.
TYLOR-05	Modern reuse	Technological interfaces can recreate animation-like perception.	Anthropology of digital agents and prompts.



## Appendix H

# Appendix F. Phenomenology of document: witness, signature, archive, responsibility

A document in KLT is not merely a file or text carrier. It is an event of fixation, trace of action, witness and possible RBD node. Therefore document phenomenology connects anthropology with the computational architecture of Volume V.

Signature, act, receipt, scientific article, formula, table and screenshot share a structure: they appear as C@C, receive D, and can be included in a Reper graph. Hence the requirement for strict references and clickable navigation throughout Monograph 6.0.

Documentary culture may be dead bureaucracy or a form of responsibility. KLT chooses the second: document reconstructs D, checks lambda-truth and prevents false retelling.

<b>ID</b>	<b>Topic</b>	<b>Interpretation</b>	<b>KLT mapping</b>
DOC-01	Document as event	A document appears by act: writing, signing, recording.	C@C_doc.
DOC-02	Document as witness	It stores a trace capable of being cited.	D_witness.
DOC-03	Document as archive	It is placed into a system of search and retrieval.	source unit.
DOC-04	Document as Reper node	It receives R/I/U/D and edges.	RBD/RPD node.
DOC-05	Document as responsibility	It binds action, person, time and proof.	Human_R -> KLT-RBD.



# Appendix I

## Appendix G. Full transition map to Volume V: KLT-RBD/RPD

Volume IV closes not with abstract humanistic morality, but with a route to computational architecture. Everything described here as memory, understanding, error, witness and historical form of perception receives a machine-indexable form in Volume V.

The IV -> V transition must be preserved as a bridge: Human\_R becomes Reper node; document becomes source/work unit; misunderstanding becomes gap/CGI event; historical perception becomes domain ontology; responsibility becomes D metadata.

Thus anthropology is not dissolved in programming; it gives programming its human meaning. RBD does not merely store data; it stores the conditions of understanding.

<b>ID</b>	<b>Topic</b>	<b>Interpretation</b>	<b>KLT mapping</b>
IV->V-01	Human_R	Reper node	the human formula becomes graph element
IV->V-02	Memory	reconstruction protocol	past facts are stable, foundations are auditable
IV->V-03	Misreading	CGI/semantic gap	wrong context becomes diagnosable
IV->V-04	Document	source/work unit	witness is indexed as data
IV->V-05	Historical perception	domain ontology	culture enters RBD as regime map
IV->V-06	Responsibility	foundation D	ethical closure becomes formal metadata

KURPISHEV LOGIC 2. Monograph 6.0. Volume V.  
KLT-RBD/RPD, Computational Architecture

Ivan Borisovich Kurpishev

2026 KLT-DOCTRINE-6-0-MONOGRAPH-6-0-TOM-V-KLT-RBD-RPD-  
COMPUTATIONAL-ARCHITECTURE-RU-EN-v4.2



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# Abstract

Volume V fixes the KLT-RBD/RPD computational layer. Monograph 5.0 is preserved without loss as PDF and full text layer.



# Chapter 1

## Formula core

### Formula V.1

$$C@C = (e, s)$$

### Formula V.2

$$Rep_i = (R_i, I_i, U_i; D_i)$$

### Formula V.3

$$Truth(Rep) \Leftrightarrow cr(U, I; R, D) = -1$$

### Formula V.4

$$_truth = | + 1 |$$

### Formula V.5

$$T_{cs} = T + R$$

### Formula V.6

$$CGI_i = (||T_{hole}^L|| + ||F_{cent}^{\{ \}}|| + ||F_{cor}^{\{ P@S \}}|| + B_)/ (r_{iu_i} + )$$

### Formula V.7

$$Forecast = _L[_L \circ _l \circ _L(RBD_)]$$

### Formula V.8

$$G_{RBD} = (V_R, E_R, , , CGI)$$



## **Chapter 2**

### **1. Purpose of Volume V**

Volume V translates Monograph 6.0 from philosophical and geometric language into a computable architecture. A document, formula, theorem, source and observation are treated as elements of a Reper database. The core editorial rule is no loss of Monograph 5.0: it is preserved as a PDF source and as a full extracted text layer.



## Chapter 3

# 2. Document as C@C and the beginning of computability

In KLT-RBD a document is not a passive file. It is an event of reading, a state of fixation, a foundation source and a possible node of future reconstruction. The document first receives C@C notation, then a Reper extraction, and then links to formulas, sources and computational statuses.



## Chapter 4

### 3. Reper Database: ontology of nodes and edges

RBD stores not only bibliographic cards. It stores transitions: from source to work-unit, from work-unit to formula, from formula to Reper node, from node to graph, from graph to prediction or reconstruction.

Layer	Unit	Function
Source	canonical source	book, article, package, archive
Work unit	source/work unit	research fragment
Extraction	segment	extraction node
Reper	(R,I,U;D)	computable semantic node
Graph	component	connectivity and transitions



## **Chapter 5**

### **4. KLT as the lambda-truth algorithm**

KLT treats truth not as arbitrary judgement but as a verifiable approximation of the Reper quadruple to harmonic closure. In this sense Kurpishev lambda-truth is a computable bridge between text, geometry and proof status.



## **Chapter 6**

### **5. CGI and causal break**

CGI turns causal hole and causal discontinuity into a computable index. If the gap exceeds the threshold, the record is not erased; it is moved into a reconstruction mode where source, domain, sufficient foundation, limit operator and neighbouring Reper links are checked.



## **Chapter 7**

# **6. PredRep and forecast as reconstruction discipline**

PredRep is not guessing. It is a procedure for projecting possible future states through limits and the operators of action, change and reversal. A forecast obtains status only under stability of the nearest Reper graph and CGI control.



## **Chapter 8**

### **7. Proof-citation layer**

A proof in KLT-RBD must have a trace: claim, formula, source, context, Reper, edge, status, rollback. Therefore every strong statement in the final Monograph 6.0 should be connected to a clickable node: theorem, formula, article, appendix or source.



## Chapter 9

# 8. Preservation of Monograph 5.0 as source-of-truth

Inside v4.2, Monograph 5.0 is preserved without loss: the 113-page PDF source is copied into `source_appendices/monograph5` and the full extracted text layer is stored beside it. PDF SHA256: `ea84bab141342eb6dc91926e...`, text SHA256: `aace643d1a405bb2120829f90110041f25af390e503d77f2a07d649e349aff55`.

Monograph 5.0 PDF: 113 pages, SHA256 `ea84bab141342eb6dc91926ef01f8130fa1dbdb0487a4f279a4e09`  
Full text layer SHA256 `aace643d1a405bb2120829f90110041f25af390e503d77f2a07d649e349aff55`.



## **Chapter 10**

### **9. Transition to Volume VI**

Volume VI must collect appendices, global bibliographies, site, FIPS, archive, check-sums, publication routes and final no-loss registry of the whole multi-volume work. Volume V transfers a computable map of sources, formulas and proof nodes to it.



# Chapter 11

## Schemes

KLT-RBD pipeline: no-loss source -> computable Reper graph



Figure 11.1: KLT-RBD pipeline

Monograph 5.0 preservation chain



Figure 11.2: Monograph 5.0 no-loss preservation

Proof-citation layer



Figure 11.3: Proof-citation layer

## **Appendix A**

# **Monograph 5.0 no-loss protocol**

Monograph 5.0 is preserved as source-of-truth: 113 pages, PDF SHA256 ea84bab141342eb6dc919  
text SHA256 aace643d1a405bb2120829f90110041f25af390e503d77f2a07d649e349aff55.  
The files are located in `source_appendices/monograph5`.



## Appendix B

# Extended Appendix C. KLT-RBD/RPD data schema

This appendix fixes the minimal engineering schema required for Monograph 6.0 to function not only as a text but also as a reproducible computational environment. Each table is a layer of the future full RBD/RPD archive: sources, works, formula nodes, repers, edges, claims, proof citations, rollback.

Table	Key	Function
sources	source_id	canonical source
works	work_id	work unit
formula_nodes	formula_id	formula or theorem
repers	reper_id	Rep=(R,I,U;D)
reper_edges	edge_id	Reper relation
claims	claim_id	monograph statement
proof_citations	citation_id	claim-formula-source-Reper route
rollback	rollback_id	rollback point



## **Appendix C**

# **Extended Appendix D. Algorithm of Reper extraction**

Algorithm: register source; split into work/source units; extract formulas and claims; assemble R,I,U,D; check domain and sufficient foundation; create edges; check CGI; create proof-citation trace. If Dom or D is missing, the node enters GAP status rather than being erased.



## **Appendix D**

# **Extended Appendix E. Examples of reading as Reper reconstruction**

A classical book receives a Reper through text, idea, universe of applicability and foundation. An authorial theorem receives a Reper through statement, invariant, geometric domain and proof. A philosophical fragment receives a Reper through historical wording, form of perception, epoch and context. A software package receives a Reper through code, algorithm, input data, tests and reproducibility.



## **Appendix E**

# **Extended Appendix F. No-loss layer of Monograph 5.0**

Monograph 5.0 enters v4.2 as a mandatory source-of-truth. The package preserves the 113-page PDF and the full extracted text layer. Later volumes may expand and comment on this corpus, but must not replace it by abridgement.



## **Appendix F**

# **Extended Appendix G. Proof-citation and internal links**

Each key formula and theorem receives an internal anchor. Every strong claim should have a route claim -> formula -> source -> Reper -> appendix. Monograph 6.0 is therefore read as a book and verified as a graph.



## **Appendix G**

# **Extended Appendix H. Transition to Volume VI**

Volume VI should collect the global archive, Appendices D/E, bibliography, site, FIPS contour, SHA256, source-of-truth packages and the final map of the multi-volume work.

# Volume VI. Appendices, global index and no-loss archive

Ivan Borisovich Kurpishev

2026 - v4.3



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## **Глава 1**

# **VI-00. Abstract and editorial status**

Volume VI closes the publication frame of Monograph 6.0. It does not replace the previous volumes; it holds them through appendices, indexes, sources, cross-references and checksum discipline.

The core rule is preservation before interpretation. Monograph 5.0 is included as a full PDF source-of-truth and as a full extracted text layer; it is not reduced to a summary.

Volume VI prepares the multi-volume work for academic reading: each chapter-article receives a position in the global map, each formula receives an ID, each author priority receives a register, and each source receives a source card.



## Глава 2

# VI-01. No-loss preservation of Monograph 5.0

Monograph 5.0 is preserved as a master-corpus package. In v4.3 it is placed under `source_appendices/monograph5` and controlled by SHA256. Further expansion into 6.0 may interpret the text but must not erase or compress it away.

Volumes I-V develop the ideas of 5.0 into publication chapters. Volume VI fixes the reverse path: the new edition must always return to the initial page, formula, appendix and archived file.

No-loss rule: `Source_5.0 -> preserved(PDF) + preserved(TXT) + mapped(index) + interpreted(volume)`. Interpretation is valid only if the preservation and mapping layers exist.



## **Глава 3**

# **VI-02. Global architecture of the six volumes**

Monograph 6.0 is organized as six interconnected books. Volume I gives foundations; Volume II strict geometry; Volume III V\*P physics and cosmology; Volume IV anthropology of historical perception; Volume V KLT-RBD/RPD computational architecture; Volume VI archive, appendices, bibliography, reference map and no-loss control.

This structure follows a classical monographic tradition: main exposition is separated from appendices, proof nodes are separated from philosophical explanation, and bibliography does not replace argument.

Each volume is a book of articles: abstract, contents, source layer, formulas, cross-links, appendices and bibliography.



## Глава 4

### VI-03. Global formula index

C@C, Rep, lambda-truth, T\_cs, CGI, PredRep and V\*P form a system of transitions, not a set of slogans. Volume VI fixes them as inter-volume anchor nodes.

Clickable references are scientific discipline rather than decoration: the reader must move from formula to definition, from definition to proof node, from proof node to source, and from source to appendix.

The formula index in CSV/JSON makes the manuscript a managed corpus: one formula may appear in several volumes, but it keeps one canonical ID.



## Глава 5

# VI-04. Register of author priorities

The register fixes the author positions of Ivan Borisovich Kurpishev: PN.2, the Desargues-Kurpishev theorem, Kurpishev packet formalisms, Reper/RBD, the KLT lambda-truth method and KLT-RBD.

Classical sources are not mixed with author constructions. Arnold, Bourbaki, Rashevsky, Ponarin, Bibler, the Kantian line and anthropological sources are support and context, not sources of KLT authorship.

This separation prevents two errors: claiming novelty for a classical fact and dissolving a new construction into the classical background.



## Глава 6

### VI-05. Classical source as source-card

Bourbaki gives the image of mathematics as architecture; the variety of disciplines requires an organizing system. This motif connects naturally to RBD as an architecture of source Reper nodes.

Arnold gives a model of geometric exposition where complex structures are explained through motion, complex numbers, quaternions and spins. Rashevsky and Ponarin provide strict support for tensor, affine and projective geometry.

Bibler, Kant, Oizerman-Narsky and anthropological sources introduce the problem of understanding: the text must be read in its own logic, not forced into an alien matrix.



## **Глава 7**

# **VI-06. Website, FIPS and applied appendices**

The website and FIPS contour belong to the appendices, not to the center of the monograph. Their role is transport, registration, publication, source confirmation and external communication.

A fundamental text must not become a service package. But the service package must be linked to the fundamental text through SHA256, inventories, source-of-truth pointers, archives and versions.

Volume VI therefore connects academic publication with legal and technical logistics without mixing genres.



## **Глава 8**

### **VI-07. Global transition map to the final edition**

After v4.3 the next level is a unified master archive of all volumes with a global index, then typographic editing of each book, then a site-ready corpus and print edition.

Readiness is not measured by volume alone, but by absence of loss, transparency of sources, clickable internal links, stability of formulas and clarity of the author line.

Monograph 6.0 must read as a major book: rigorous in mathematics, explanatory in philosophy, readable in anthropology, careful in appendices and verifiable in the computational layer.



## Глава 9

# Anchor formulas / Опорные формулы

### F-CAC

$$C@C=(e, s)$$

event-state packet. Links: Tom I; Tom V; Appendix D. Status: author core.

### F-REP

$$\text{Rep}_i=(R_i, I_i, U_i; D_i)$$

Reper fourfold structure. Links: Tom I; Tom II; Tom V. Status: author core.

### F-LAMBDA

$$\lambda = ((U-R)(I-D)) / ((U-D)(I-R))$$

projective-harmonic truth parameter. Links: Tom I; Tom II. Status: KLT core.

### F-TRUTH

$$\text{Truth}(\text{Rep}) \Leftrightarrow \text{cr}(U, I; R, D) = -1$$

lambda-truth criterion. Links: Tom I; PILOT-01. Status: KLT core.

### F-TCS

$$T_{cs} = T + R$$

torsion-curvature causal tensor. Links: Tom II; Tom III. Status: KPF/RPHD core.

### F-CGI

$$\text{CGI}_i = (||T_{\text{hole}}^L|| + \sum B_{\nu}) / (r_i u_i + \epsilon)$$

causal-gap index. Links: Tom II; Tom V. Status: KLT-RBD computation.

**F-PREDREP**
$$\text{PredRep}=(R, I, U; D; L, T, E, S)$$

predictive Reper structure. Links: Tom III; Tom V. Status: author core.

**F-VP**
$$V*P=\text{Time}*\text{Space}$$

primary packet physics structure. Links: Tom III. Status: V\*P author core.

**F-PN2**
$$\text{Delta}(\text{size}, \text{dimension})_{\text{packet}} \neq 0$$

PN.2: uncertainty of size and dimension. Links: Tom I; Tom II; Tom VI. Status: author priority.

## Глава 10

# Global registers / Глобальные реестры

### 10.1. Global volume register

Vol	Title	Core	Checkpoint	Formats	Status
I	Foundations	C@C, Reper, lambda-truth, PN.2, KLT foundations	v3.5	RU/EN DOCX/TEX/PDF	completed; deepenable
II	Strict geometry	NAPG, KPF/RPHD, Desargues-Kurpishev, Fano/PILOT-01	v3.8	RU/EN DOCX/TEX/PDF + source appendices	completed appendices
III	V*P physics and cosmology	Stratified time, V*P, packet cosmology, PredRep	v3.9	RU/EN DOCX/TEX/PDF	first complete build; needs expansion
IV	Anthropology of historical perception	Bibler, Kant, Tylor, phenomenology, document	v4.1	RU/EN DOCX/TEX/PDF	deepened appendices
V	KLT-RBD/RPD computational architecture	Reper graphs, CGI, PredRep, proof-citation layer, M5 preservation	v4.2	RU/EN DOCX/TEX/PDF + M5 source-of-truth	completed no-loss layer
VI	Appendices and global index	Global bibliography, cross-links, site/FIPS/archive, SHA256, no-loss map	v4.3	RU/EN DOCX/TEX/PDF	current build

### 10.2. Global formula index

ID	Formula	Meaning	Links	Status
F-CAC	$C@C=(e,s)$	event-state packet	Tom I; Tom V; Appendix D	author core
F-REP	$Rep_i=(R_i, I_i, U_i)$	Reper fourfold structure	Tom I; Tom II; Tom V	author core

ID	Formula	Meaning	Links	Status
F-LAMBDA	$\lambda = ((U-R)(I-D)) / ((U-D)(I-R))$	projective-harmonic truth parameter	Tom I; Tom II	KLT core
F-TRUTH	Truth(Rep) $\Leftrightarrow$ cr(U,I;R,D)=-1	lambda-truth criterion	Tom I; PILOT-01	KLT core
F-TCS	$T_{cs} = T + R$	torsion-curvature causal tensor	Tom II; Tom III	KPF/RPHD core
F-CGI	$CGI_i = ( T_{hole}^{(i)}  / (B_{nu} / (r_i u_i + \epsilon)))$	data-slugap index	Tom II; Tom V	KLT-RBD computation
F-PREDREP	PredRep=(R,I,U;D)	Pred. Ref. Se. Reper structure	Tom III; Tom V	author core
F-VP	$V * P = Time * Space$	primary packet physics structure	Tom III	V*P author core
F-PN2	$\Delta(size, dimension) \neq 0$	PN2: packet uncertainty of size and dimension	Tom I; Tom II; Tom VI	author priority

### 10.3. Author priority register

ID	Position	Description	Location	Author
AP-01	PN.2	Principle of uncertainty for packet object size and dimension	Author position fixed across Vol. I and VI	Ivan Borisovich Kurpishev
AP-02	Desargues-Kurpishev theorem	Projective theorem line around conics, center axis and harmonic point	Vol. II and source appendix	Ivan Borisovich Kurpishev
AP-03	Packet formalisms of Kurpishev	X*Y packet/Hodge/operator logic	Vol. I-III formal	Ivan Borisovich Kurpishev
AP-04	Reper and RBD	Reper as reversible projective-harmonic structure and database architecture	Vol. I, V, VI	Ivan Borisovich Kurpishev
AP-05	KLT	Kurpishev lambda-truth method	Vol. I, V, VI	Ivan Borisovich Kurpishev
AP-06	KLT-RBD	Computable KLT-Reper database layer	Vol. V, VI	Ivan Borisovich Kurpishev

### 10.4. Source register

ID	Author	Title	Year	Role
SRC-M5	Ivan Borisovich Kurpishev	Monograph 5.0: Logika Kurpisheva	2026	master corpus package; preserved full PDF and text in v4.3
SRC-APP-D	Ivan Borisovich Kurpishev / editorial build	Appendix D: source/formula/thought index	2026	global clickable index foundation
SRC-APP-E	Ivan Borisovich Kurpishev / editorial build	Appendix E: RPD/RBD corrected count	2026	236 sources, 1145 units, 2212 nodes, 2478 edges
SRC-Bourbaki	N. Bourbaki	Architecture of Mathematics	1948/1960	classic architectural framing of mathematics
SRC-Arnold	V. I. Arnold	Geometry of Complex Numbers, Quaternions and Spins	2002	geometric support layer
SRC-Rashevsky	P. K. Rashevsky	Riemannian Geometry and Tensor Analysis	1967	tensor and differential geometry support
SRC-Ponarin	Ya. P. Ponarin	Affine and Projective Geometry	2009	projective/affine geometry support
SRC-Bibler	V. S. Bibler	Kant-Galileo-Kant	1991	anthropology of understanding and matrix of reading
SRC-Oizerman-Narsky	T. Oizerman; I. S. Narsky	Kant Theory of Knowledge	1991	Kantian epistemological source layer
SRC-PILOT01	Ivan Borisovich Kurpishev	PILOT-01 formula-chain audit and Fano barrier	2026	RPD proof-status source layer



# Глава 11

## Schemes / Схемы

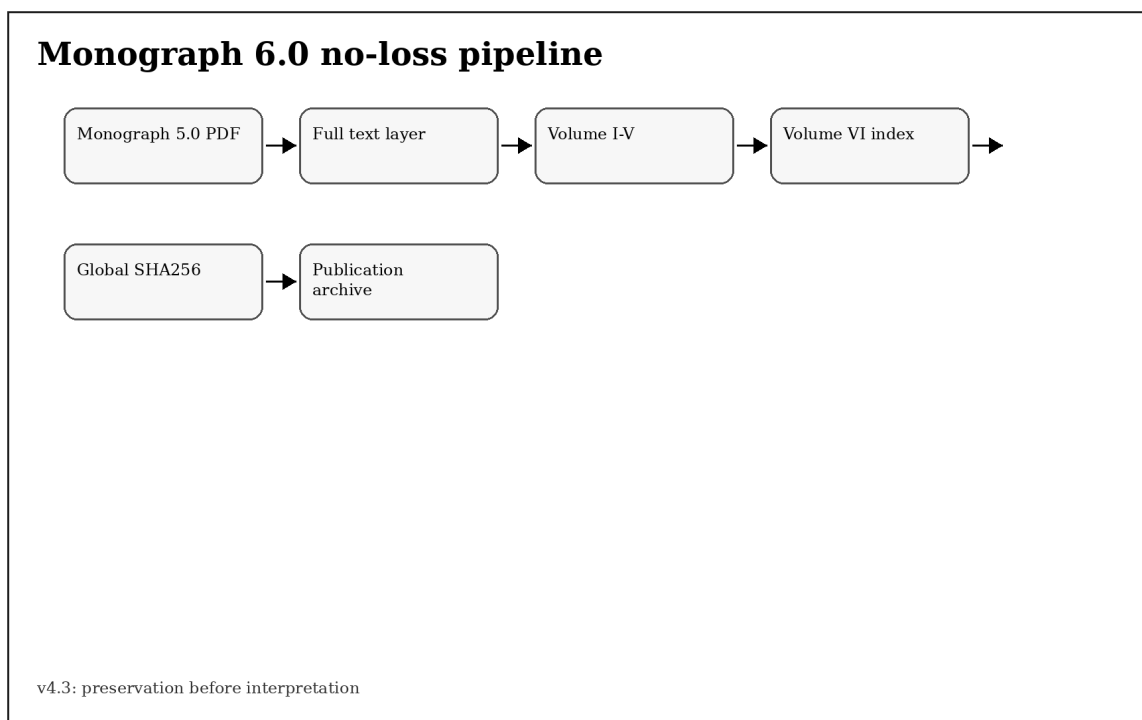


Рис. 11.1: No-loss pipeline

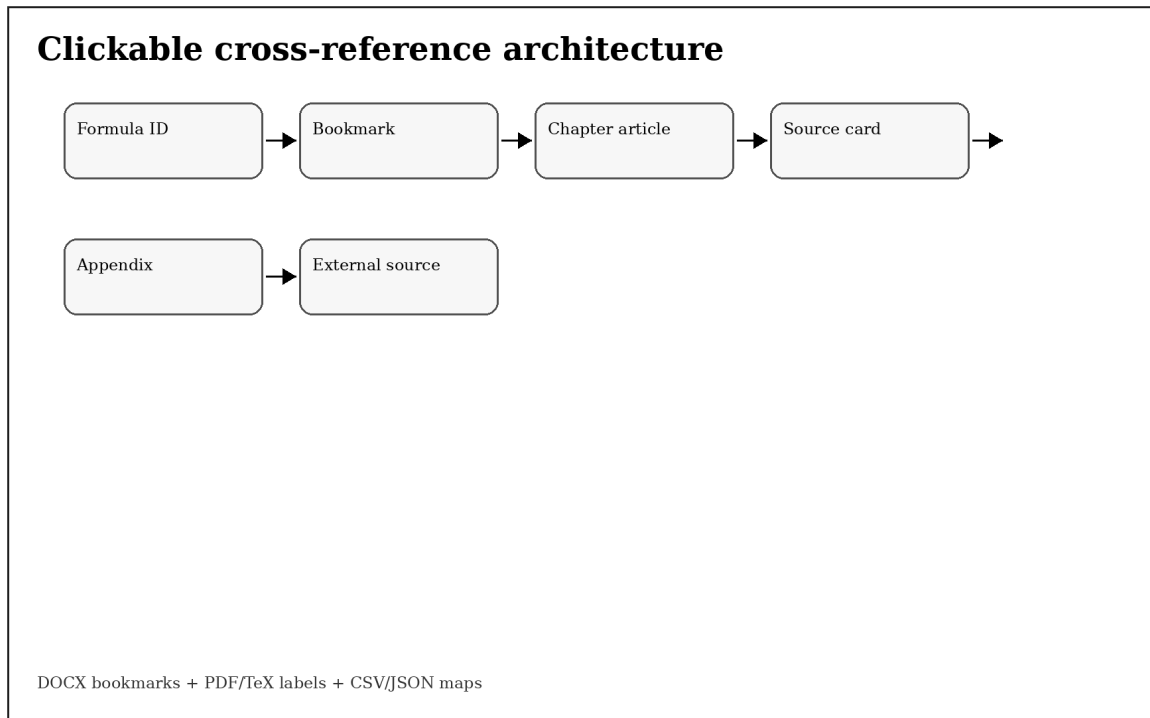


Рис. 11.2: Cross-reference architecture

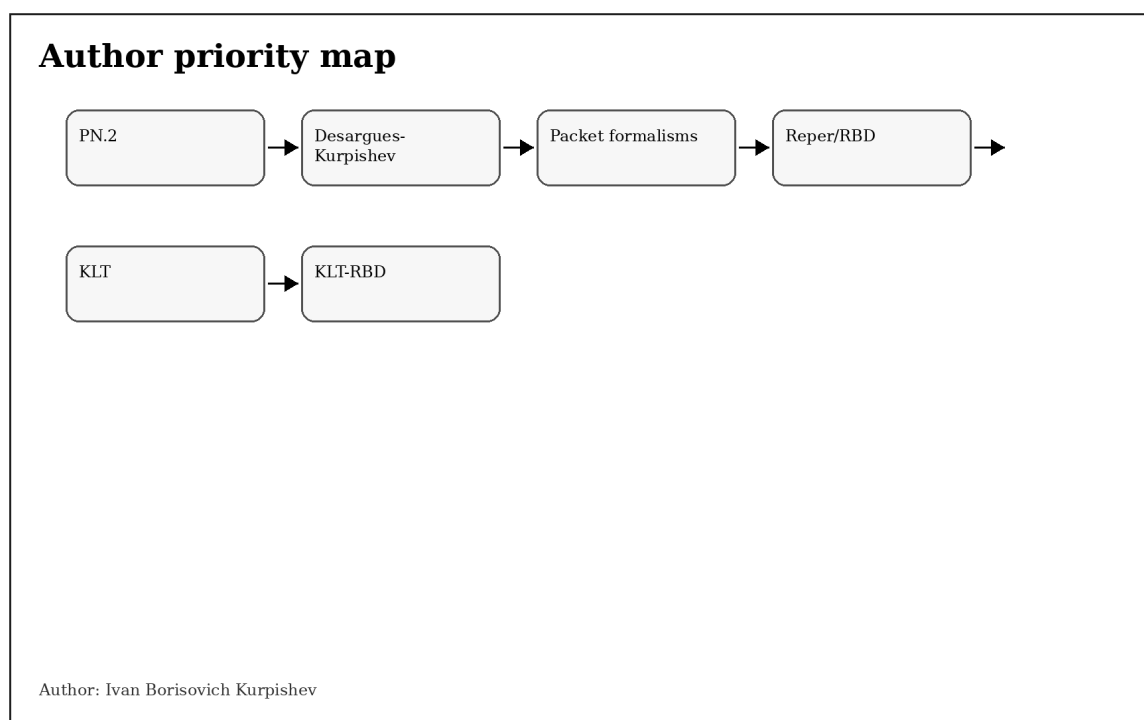


Рис. 11.3: Author priority map



## **Глава 12**

# **Final no-loss statement**

Monograph 5.0 is preserved in full PDF and full extracted text. This volume is an index and archive layer; it does not replace the source.