

KLT-RBD 2.3 REPER DATABASE

Website monograph: purpose, philosophy, anthropology, Kurpishev Artifacts and proof of Artifact-1

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Title fixation

KLT-RBD 2.3 Reper Database is the authorial Reper-projective database of the project **Kurpishev Logic 2**. It is intended for the KLT4.14 and KLT5.1 software line, for storing sources, formulas, sufficient foundations, Reper nodes, edges, graphs, statuses and Kurpishev Artifacts.

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Status: website monograph; publication layer; not a legal filing; no automatic truth-layer promotion.

Abstract

This monograph explains the purpose of KLT-RBD 2.3, its anthropological and philosophical meaning, the structure of Reper, edges and graphs, and the role of Kurpishev Artifacts as theorem-candidate objects. Artifact-1 is proved as an internal theorem of KLT-RBD concerning controlled certificate readiness.

source -> work -> semantic_unit -> formula_node -> Rep(R,I,U;D)
-> edge/gap/break -> proof_object -> status -> rollback
-> publication/site/software route

1. Why a Reper database is needed

A human being does not live among isolated facts. An event has meaning only in a state; a formula has meaning only in a domain; a document has meaning only inside a chain of responsibility; a scientific hypothesis has meaning only inside proof discipline. Therefore the initial unit of the project is not an abstract point, but event@state.

$C@C = (e, s)$, where e is event and s is state.

KLT-RBD is created as mathematical memory of foundations. It answers not only “where is the source?”, but “what role does this source play in proof, calculation, forecast, software or publication?”.

2. Formal core

$C@C = (e, s)$

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

$\lambda = cr(U, I; R, D) = ((U - R) * (I - D)) / ((U - D) * (I - R))$

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

$\delta_{truth} = |\lambda + 1|$

$Auth(Rep) = 1 / (1 + \delta_{truth})$

$CGI_i = (||T_hole^L|| + ||F_cent^{(Xi Upsilon)}|| + ||F_cor^{(P@S)}|| + \sum B_nu) / (r_i * u_i + \epsilon)$

R fixes established content. I fixes invariant, name or idea. U fixes the field of possible extensions. D fixes sufficient foundation. Without D , a Reper remains a flag, not a truth-bearing quadruple.

3. Architecture of KLT-RBD 2.3

A source is not stored as a passive bibliographic row. It becomes a work-node, semantic unit, formula node, Reper-node and then enters a graph of edges, gaps, proof-objects and release routes.

Parameter	Value
RBD records	10240
RBD edges	30720
Domains	8
Kurpishev Artifacts	36
Truth-layer promotions	0
KLT4-ready rows	10240
KLT5-ready rows	10240

3.1. Database domains

Code	Domain	Records	Group
BANK	Banking	1280	social-financial
BIO	Biology	1280	natural-science
CHEM	Chemistry	1280	natural-science

Code	Domain	Records	Group
DNA	DNA and genomics	1280	natural-science
ECON	Economics	1280	social-financial
FIN	Finance	1280	social-financial
MATH	Mathematics	1280	formal-science
PHYS	Physics	1280	natural-science

3.2. Record kinds

Record kind	Count
definition	1280
formula	1280
object	1280
relation	1280
invariant	1280
status	1280
gap-candidate	1280
predictor-seed	1280

3.3. Edge types

Edge type	Count
sequence	10240
domain_hub	10240
source_binding	10240

3.4. Source channels

Source channel	Records
Crossref	1280
OpenAlex	1280
FRED API	960
arXiv	640
NIST DLMF	640
Europe PMC	640
IMF Data API	640
PubChem	320
UniProt	320
RCSB PDB	320
NIST Chemistry WebBook	320

Source channel	Records
NCBI PubMed	320
Ensembl REST	320
NCBI E-utilities	320
World Bank API	320
BEA API	320
SEC EDGAR APIs	320
BIS Stats API	320
Basel Framework	320
FDIC BankFind	320

4. Mathematical Repers

A mathematical object X receives the card:

$$\text{Rep_math}(X) = (R_X, I_X, U_X ; D_X).$$

R_X is established content; I_X is invariant or idea; U_X is the field of generalizations; D_X is axiomatic, source and proof foundation. Mathematics is therefore assembled as a graph: axioms, definitions, objects, morphisms, invariants, theorems, proofs, computations and gaps.

for each mathematical_unit u:

classify u as axiom / definition / theorem / proof / model / invariant / algorithm / gap

build Rep(u) = (R, I, U ; D)

compute lambda, delta_truth, CGI

if Dom or D missing: create GAP-DOMAIN-MISSING or GAP-ASSUMP-MISSING

if proof skeleton stable: create theorem-candidate card

5. Physics, chemistry, biology, DNA and applied sciences

Physics uses Reper as causal connectivity. A physical Reper stores formula, scale, boundary conditions, limits and causal gap index.

Chemistry uses the scheme:

$$C@C_chem \rightarrow \text{Rep_chem}(R, I, U ; D) \rightarrow \text{lambda/CGI} \rightarrow \text{RBD-graph}.$$

R can be substance, reaction or material. I can be a bond type or reaction invariant. U is the field of conditions. D is source, mass/charge balance and thermodynamic or kinetic foundation.

Biology and DNA require a graph of transitions among code, function and organism state:

$$\text{Rep_DNA} = (R_sequence, I_gene/function, U_mutation/expression ; D_genomic_evidence).$$

Economics, finance and banking are represented as scenario Reper-graphs. The database gives no investment advice; it fixes sources, risks, regulatory foundations and causal gaps.

6. Kurpishev Artifacts 1-36

Kurpishev Artifacts are formal candidate/review/roadmap objects. Each object has candidate_id, source_object_id, proof_object_id, formal_card_id, lambda, delta_truth, CGI, blockers, decision and next action.

gap != theorem_candidate != proved theorem != formal theorem

No.	lambda	delta_truth	CGI	blockers	decision
1	-0.992737	0.00726343	0.140949	0	signature-ready
2	-0.97725	0.0227498	0.134613	0	return-to-hold
3	-1.03548	0.0354781	0.134599	1	return-to-hold
4	-1.02879	0.0287855	0.160747	6	hold
5	-1.03504	0.0350354	0.158355	6	hold
6	-0.940909	0.0590911	0.141894	4	hold
7	-0.929507	0.0704931	0.139731	4	hold
8	-1.07502	0.0750213	0.163651	6	hold
9	-1.07087	0.0708717	0.140114	5	rebuild
10	-1.07795	0.0779507	0.155086	5	rebuild
11	-1.11526	0.115256	0.170376	6	hold
12	-1.12475	0.124753	0.161702	6	hold
13	-1.13665	0.136651	0.159899	6	hold
14	-1.14234	0.142339	0.15088	6	hold
15	-1.16248	0.162476	0.140025	6	A15-FIPS-FINAL-FIELDS-SEAL
16	-1.11715	0.117153	0.251555	999	REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD
17	-1.17689	0.176892	0.169986	6	BOARD-RETURN-FORMAL-CARD-

No.	lambda	delta_truth	CGI	blockers	decision
18	-1.19898	0.198979	0.159793	6	EXPANDED BOARD- RETURN- FORMAL- CARD- EXPANDED
19	-1.1987	0.198701	0.172854	6	BOARD- RETURN- FORMAL- CARD- EXPANDED
20	-1.17301	0.173009	0.261519	999	REPEAT- AUDIT- FORMAL- CARD- SKELETON- HELD
21	-1.20309	0.203088	0.146018	9	ROLE-MAP- FORMAL- CARD- REBUILD- BATCH-2
22	-1.21428	0.21428	0.161548	9	ROLE-MAP- FORMAL- CARD- REBUILD- BATCH-2
23	-1.22472	0.224723	0.258421	999	REPEAT- AUDIT- FORMAL- CARD- SKELETON- HELD
24	-1.30752	0.307519	0.164424	10	NEGATIVE- EVIDENCE- FORMAL- CARD-LOCK
25	-1.34685	0.346845	0.17185	10	NEGATIVE- EVIDENCE- FORMAL- CARD-LOCK
26	-1.24136	0.241361	0.169605	9	ROLE-MAP- FORMAL-

No.	lambda	delta_truth	CGI	blockers	decision
27	-1.25807	0.258074	0.15873	9	CARD- REBUILD- BATCH-2 ROLE-MAP- FORMAL- CARD- REBUILD- BATCH-2
28	-1.28068	0.280679	0.16134	9	ROLE-MAP- FORMAL- CARD- REBUILD- BATCH-2
29	-1.26271	0.262708	0.172038	9	ROLE-MAP- FORMAL- CARD- REBUILD- BATCH-2
30	-1.38998	0.389975	0.255033	999	REPEAT- AUDIT- FORMAL- CARD- SKELETON- HELD
31	-1.334	0.334002	0.257608	999	REPEAT- AUDIT- FORMAL- CARD- SKELETON- HELD
32	-1.47402	0.474022	0.267903	999	REPEAT- AUDIT- FORMAL- CARD- SKELETON- HELD
33	-1.39706	0.39706	0.273415	999	REPEAT- AUDIT- FORMAL- CARD- SKELETON- HELD
34	-1.409	0.409002	0.289066	999	REPEAT-

No.	lambda	delta_truth	CGI	blockers	decision
					AUDIT-FORMAL-CARD-SKELETON-HELD
35	-1.69762	0.697617	0.35328	999	REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD
36	-2.05394	1.05394	0.366055	999	REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD

7. Kurpishev Artifact-1 as an internal theorem of KLT-RBD

7.1. Data of Artifact-1

Field	Value
Name	Kurpishev Artifact-1
candidate_id	ARTIFACT-CANDIDATE-RUN015-001
source_object_id	RIUD-TETRA-RUN006-029
proof_object_id	PROOF-OBJ-RUN007-0029
formal_card_id	FORMAL-CARD-RUN009-006
object_type	RIUD_TETRA
class	KNOWN_SIGNATURE_READY_REFERENCE
decision	signature-ready
stage	ready-for-controlled-certificate-signature-not-truth-layer
lambda	-0.992737
delta_truth	0.007263
CGI	0.140949
blockers	0
truth_layer_promotion	0

7.2. Theorem

Theorem 7.1 (Kurpishev Artifact-1, internal RBD theorem). Let an object A in KLT-RBD have nonempty source_object_id, proof_object_id and formal_card_id, satisfy $\text{delta_truth} \leq 0.01$, $\text{CGI} < 1$, $\text{remaining_blockers} = 0$, and have decision signature-ready. Then A is internally certifiable at the controlled certificate signature-ready level. It does not become an externally proved theorem without a separate truth-layer promotion.

Proof. For Artifact-1 we have:

```
source = RIUD-TETRA-RUN006-029
proof  = PROOF-OBJ-RUN007-0029
card   = FORMAL-CARD-RUN009-006
lambda(A1) = -0.992737
delta_truth(A1) = |lambda(A1)+1| = 0.007263 <= 0.01
CGI(A1) = 0.140949 < 1
blockers(A1) = 0
truth_layer_promotion(A1) = 0
```

All hypotheses of the KLT-RBD gate rule are satisfied: source/proof/formal-card are attached, truth defect is small, CGI is below 1, blockers are absent, and the decision is signature-ready. Therefore Artifact-1 receives the internal status controlled certificate signature-ready. Since truth_layer_promotion equals 0, the theorem proves an internal KLT-RBD status, not an unrestricted external theorem. QED.

8. Authorship, novelty and research plan

The novelty of Ivan B. Kurpishev consists in joining C@C, Rep(R,I,U;D), lambda-truth, CGI, RBD/RPD, Kurpishev Artifacts and the KLT4.14/KLT5.1 software layer into one computable architecture.

Direction	Next step	Result
Mathematics	formalize theorem-candidates	proof roadmaps and formal cards
Physics	refine causal tensors	stable causal bridges
Chemistry	reaction graph + Evidence-D	graph of substances, reactions and materials
Biology/DNA	gene/function/state graph	code-function-state map
Economy/finance	scenario/gap graph	map of risks and causal breaks
Banking	regulation/risk/liquidity graph	regulatory-risk database

Conclusion

KLT-RBD 2.3 is the computable memory of Kurpishev Logic 2. It turns the core C@C -> Reper -> lambda -> CGI into a storable, verifiable, extensible and software-usable database.

Sources

1. Ivan B. Kurpishev. Monograph 5.0: Kurpishev Logic. 2026.
2. Ivan B. Kurpishev. Reper-Projective Architecture of Formula Chains: PILOT-01. 2026.
3. Ivan B. Kurpishev. Fundamental Support Connectivity, Desargues-Kurpishev Theorem and PN.2. 2026.
4. Ivan B. Kurpishev. KLT-RBD Predictor Public Demo Freeze v2.1. 2026.
5. Ivan B. Kurpishev. KLT-RBD v2.3, RUN095-RUN104. 2026.

8. RUN-108: artifacts as gap closures in the Architecture of Mathematics and sciences

In RUN-108 every Kurpishev Artifact card receives not only a technical status but also a substantive statement: **what the artifact opens in a concrete science** and **which structural gap it closes**. Two levels must be separated: the internal KLT-RBD theorem-candidate statement and an external academic proof. This monograph fixes the first level; the second level requires a separate paper, formalization and independent review.

The artifacts close gaps by building a Reper map:

Gap(X) -> Artifact_i -> Rep(R,I,U;D) -> Edge/ProofObject -> Roadmap -> Publication/Software route

8.1. Summary list of discoveries

- **A01.** Field: математика оснований и программная архитектура KLT. Discovery: выявлен первый эталонный RIUD-тетраэдр: замкнутый узел $Rep(R,I,U;D)$, в котором прогнозный gap, ближайшая пересборка, валидность пределов и запись $PredReperRecord$ образуют сертифицируемый K4-мотив Gap closure: закрывает пробел между гармоническим lambda-критерием и доказательным gate-статусом: формула уже не висит отдельно, а получает source-object, proof-object, formal-card и D-связку Status: signature-ready; delta=0.0072634; CGI=0.14095.
- **A02.** Field: математика семантического поиска. Discovery: показан механизм восстановления signature-witness для перехода от semantic fog search к ближайшей Reper-пересборке Gap closure: закрывает пробел независимого свидетеля между найденным мотивом и controlled signature readiness Status: return-to-hold; delta=0.02275; CGI=0.13461.
- **A03.** Field: математика прогнозных цепочек. Discovery: обнаружена структура с одним оставшимся blocker между semantic fog, forecast и rebuild neighborhood Gap closure: закрывает локальный proof-gap: показывает,

какой единственный недостающий мост мешает переводу в accept-review Status: return-to-hold; delta=0.035478; CGI=0.1346.

- **A04.** Field: физика пределов и теория допустимого будущего. Discovery: связаны forecast-fact gap, predictive limits и admissible future Reper Gap closure: закрывает пробел между физическим предельным условием и будущим Reper-состоянием Status: hold; delta=0.028786; CGI=0.16075.
- **A05.** Field: предсказательная математика и физика сценариев. Discovery: выделен мост forecast -> predictive forecast -> admissible future Reper Gap closure: закрывает пробел между прогнозной формулой и областью допустимых будущих состояний Status: hold; delta=0.035035; CGI=0.15835.
- **A06.** Field: пространственная геометрия, экология и предельные условия. Discovery: выявлен пространственно-экологический limit-packet на базе event_state_limit_packet Gap closure: закрывает пробел между Raum/пространством, экологическим пределом и будущим Reper Status: hold; delta=0.059091; CGI=0.14189.
- **A07.** Field: экология, политическая динамика и теория решений. Discovery: собран политико-экологический Reper-мотив допустимого будущего Gap closure: закрывает пробел между экологическим и политическим пределами при построении сценариев Status: hold; delta=0.070493; CGI=0.13973.
- **A08.** Field: общая теория события@состояния. Discovery: обнаружен базовый event-state predictor motif с predictive limits и PredReperRecord Gap closure: закрывает пробел между C@C-онтологией и машинной записью предиктора Status: hold; delta=0.075021; CGI=0.16365.
- **A09.** Field: математика доказательств и role-map-аудит. Discovery: показана необходимость пересборки role-map при сохранении сильной прогнозной связности Gap closure: закрывает пробел неправильного назначения ролей R/I/U/D Status: rebuild; delta=0.070872; CGI=0.14011.
- **A10.** Field: геометрия пространства-времени. Discovery: выявлен Raum-Time-Future tetra-motif Gap closure: закрывает пробел между пространственным пределом, временным пределом и будущим Reper Status: rebuild; delta=0.077951; CGI=0.15509.
- **A11.** Field: предсказательная математика. Discovery: выделена тройная связка predictive limits + predictive forecast + PredReperRecord Gap closure: закрывает пробел между ограничениями, прогнозом и записываемым Reper-объектом Status: hold; delta=0.11526; CGI=0.17038.
- **A12.** Field: формальная валидация предиктора. Discovery: показан мотив PredReperRecord + LimitOK + admissible future Gap closure: закрывает пробел между проверкой пределов и регистрацией будущего Reper Status: hold; delta=0.12475; CGI=0.1617.
- **A13.** Field: физика времени и пространства. Discovery: обнаружен мотив Raum + predictive_reper_record + Time Gap closure: закрывает пробел между пространственной локализацией и временной фиксацией предиктора Status: hold; delta=0.13665; CGI=0.1599.

- **A14.** Field: онтология времени. Discovery: собран Time-Ontology-Future motif Gap closure: закрывает пробел между онтологическим пределом и временной допустимостью будущего состояния Status: hold; delta=0.14234; CGI=0.15088.
- **A15.** Field: публикационный и регистрационный контур изобретения. Discovery: связан forecast-fact gap, nearest rebuild, predictive forecast и PredReperRecord как маршрут к FIPS/site materialization Gap closure: закрывает пробел между математическим артефактом и публикационно-регистрационным пакетом Status: A15-FIPS-FINAL-FIELDS-SEAL; delta=0.16248; CGI=0.14003.
- **A16.** Field: методология повторного аудита. Discovery: зафиксирована сырая зона повторного аудита без formal-card Gap closure: закрывает не положительный, а диагностический пробел: показывает область, где нельзя объявлять theorem-candidate без карты Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD; delta=0.11715; CGI=0.25156.
- **A17.** Field: формальные базы предиктора. Discovery: расширен formal-card для PredReperRecord + LimitOK Gap closure: закрывает пробел board-return между формальной записью и проверкой пределов Status: BOARD-RETURN-FORMAL-CARD-EXPANDED; delta=0.17689; CGI=0.16999.
- **A18.** Field: биология здоровья и predictive health. Discovery: связан forecast gap, nearest rebuild, PredReperRecord и predictive_health Gap closure: закрывает пробел между health-состоянием и причинной пересборкой Status: BOARD-RETURN-FORMAL-CARD-EXPANDED; delta=0.19898; CGI=0.15979.
- **A19.** Field: биология здоровья и событие@состояние. Discovery: связан event_state_limit_packet, predictive_health и predictive_reper_record Gap closure: закрывает пробел между биологическим состоянием, записью и достаточным D Status: BOARD-RETURN-FORMAL-CARD-EXPANDED; delta=0.1987; CGI=0.17285.
- **A20.** Field: сырой health-аудит. Discovery: зафиксирован необработанный health/predictive candidate Gap closure: закрывает диагностический пробел: запрещает преждевременное присвоение theorem-status Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD; delta=0.17301; CGI=0.26152.
- **A21.** Field: пространственно-экологическое моделирование. Discovery: обнаружен Raum/Ecology/predictive_reper_record motif с требованием role-map rebuild Gap closure: закрывает пробел между пространством, экологией и предикторной записью Status: ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2; delta=0.20309; CGI=0.14602.
- **A22.** Field: биология здоровья и допустимые будущие состояния. Discovery: связан predictive_health и admissible_future_reper Gap closure: закрывает пробел между health-индикатором и future-Reper Status: ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2; delta=0.21428; CGI=0.16155.
- **A23.** Field: междисциплинарный raw candidate layer. Discovery: зафиксирован неполный мультидоменный кандидат Gap closure: закрывает пробел методической честности: объект сохраняется, но не

повышается Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD;
delta=0.22472; CGI=0.25842.

- **A24.** Field: негативное свидетельство в bio/health контуре. Discovery: оформлен отрицательный evidence-lock как необходимый элемент науки о пробелах Gap closure: закрывает пробел фальсификации: отрицательный результат сохраняется как структурное знание Status: NEGATIVE-EVIDENCE-FORMAL-CARD-LOCK; delta=0.30752; CGI=0.16442.
- **A25.** Field: негативное свидетельство в контуре limits/health. Discovery: обнаружена несовместимость predictive limits и predictive_health на текущем gate Gap closure: закрывает пробел, где плохая связка должна быть сохранена, а не стерта Status: NEGATIVE-EVIDENCE-FORMAL-CARD-LOCK; delta=0.34685; CGI=0.17185.
- **A26.** Field: прогнозная математика записей. Discovery: выявлен объект forecast + predictive record с требованием role-map rebuild Gap closure: закрывает пробел между forecast и стабильной записью Reper Status: ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2; delta=0.24136; CGI=0.16961.
- **A27.** Field: валидация пределов. Discovery: связан PredReperRecord, admissible future и LimitOK Gap closure: закрывает пробел между проверкой предела и будущей допустимостью Status: ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2; delta=0.25807; CGI=0.15873.
- **A28.** Field: предсказательная программа KLT. Discovery: связан predictive_forecast и admissible_future_reper Gap closure: закрывает пробел между прогнозом и конструкцией допуска будущего Status: ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2; delta=0.28068; CGI=0.16134.
- **A29.** Field: пределы и predictive record. Discovery: связан predictive_limits и predictive_reper_record Gap closure: закрывает пробел между ограничением сценария и машинной записью Status: ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2; delta=0.26271; CGI=0.17204.
- **A30.** Field: математика. Discovery: зафиксирован raw-кандидат для будущей теоремной карты Gap closure: закрывает карту неизвестности: показывает незаполненный участок Architecture of Mathematics Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD; delta=0.38998; CGI=0.25503.
- **A31.** Field: физика. Discovery: зафиксирован raw-кандидат для causal/limit-проверки Gap closure: закрывает карту неизвестности в физическом graph-layer Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD; delta=0.334; CGI=0.25761.
- **A32.** Field: химия. Discovery: зафиксирован raw-кандидат для будущего химического Reper-графа Gap closure: закрывает карту неизвестности между формулой, веществом, средой и Evidence-D Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD; delta=0.47402; CGI=0.2679.
- **A33.** Field: биология. Discovery: зафиксирован raw-кандидат для carrier-графа структура-функция-среда Gap closure: закрывает карту неизвестности в биологических переходах Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD; delta=0.39706; CGI=0.27341.

- **A34.** Field: ДНК и геномика. Discovery: зафиксирован raw-кандидат для Rep_DNA = (sequence,function,mutation/expression; evidence) Gap closure: закрывает карту неизвестности между последовательностью и функцией Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD; delta=0.409; CGI=0.28907.
- **A35.** Field: экономика и финансы. Discovery: зафиксирован raw-кандидат для сценарного graph-layer Gap closure: закрывает карту неизвестности между индикатором, риском, источником и нормативным D Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD; delta=0.69762; CGI=0.35328.
- **A36.** Field: банковское дело и регуляторика. Discovery: зафиксирован raw-кандидат для banking Reper graph Gap closure: закрывает карту неизвестности между банковским объектом, нормативом, отчётностью и risk-D Status: REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD; delta=1.0539; CGI=0.36605.

9. Full cards of Kurpishev Artifacts 1-36

Card of Kurpishev Artifact-1

Science / field: foundations of mathematics and KLT software architecture.

What the artifact opens. a structure was detected первый эталонный RIUD-тетраэдр: замкнутый узел $Rep(R,I,U;D)$, в котором прогнозный gap, ближайшая пересборка, валидность пределов и запись PredReperRecord образуют сертифицируемый K4-мотив.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between harmonic lambda-критерием и proof gate-статусом: formula уже не висит отдельно, а получает source-object, proof-object, formal-card и D-связку.

Internal theorem statement. Артефакт-1 Курпишева утверждает существование в KLT-RBD первого эталонного signature-ready RIUD-тетраэдра, который соединяет forecast_fact_gap, nearest_rebuild_neighborhood, LimitOK и PredReperRecord в один сертифицируемый Reper-узел $Rep(R,I,U;D)$.

Formal card: FORMAL-CARD-RUN009-006; **source:** RIUD-TETRA-RUN006-029; **proof-object:** PROOF-OBJ-RUN007-0029.

Metrics: lambda = -0.992736565, delta_truth = 0.00726343453, CGI = 0.140948882, blockers = 0, decision = signature-ready.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Использовать как эталон; статья RU/EN/ZH/PDF через publication pipeline; truth-layer не менять..

Extended proof of Artifact-1

Definition. A RIUD tetrahedron is a complete K4 subgraph of RBD whose vertices are read as R, I, U, D. It can be read as Rep(R,I,U;D) only when role assignment, non-empty D, admissible domain and denominator-safe lambda model are present.

For Artifact-1:

source_object_id = RIUD-TETRA-RUN006-029

R = forecast_fact_gap

I = nearest_rebuild_neighborhood

U = LimitOK

D = PredReperRecord

lambda = -0.992736565467904

delta_truth = 0.0072634345320961

CGI = 0.1409488823383871 < 1

remaining_blockers = 0

current_decision = signature-ready

truth_layer_promotion = 0

Theorem. A RIUD tetrahedron with non-empty R,I,U,D roles, $\text{delta_truth} \leq 0.01$, $\text{CGI} < 1$, zero blockers and signature-ready decision is an internally certifiable KLT-RBD artifact and a reference pattern for detecting similar closures in the Architecture of Mathematics.

Proof. The K4 motif prevents the object from being an isolated formula: it already contains the four Reper roles. Non-empty D turns the triple (R,I,U) into an evidence-addressable quadruple. The bound $\text{delta_truth} \leq 0.01$ gives proximity to the harmonic condition $\text{cr}(U,I;R,D) = -1$. The inequality $\text{CGI} < 1$ states that no graph-causal break destroys the connection. Zero blockers remove the open gate obstacles. Hence the RBD audit assigns signature-ready. Since $\text{truth_layer_promotion} = 0$, the theorem proves only the internal controlled certificate readiness, not an external absolute theorem status. \square

Card of Kurpishev Artifact-2

Science / field: mathematics of semantic search.

What the artifact opens. a mechanism is shown МЕХАНИЗМ ВОССТАНОВЛЕНИЯ signature-witness для перехода от semantic fog search к ближайшей Reper-пересборке.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap независимого свидетеля between найденным мотивом и controlled signature readiness.

Internal theorem statement. Артефакт-2 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-030 it closes gap типа 'it closes gap независимого свидетеля between найденным мотивом и controlled signature readiness' в домене: математика семантического поиска.

Formal card: FORMAL-CARD-RUN009-002; **source:** RIUD-TETRA-RUN006-030; **proof-object:** PROOF-OBJ-RUN007-0030.

Metrics: $\lambda = -0.977250246$, $\delta_{\text{truth}} = 0.0227497537$, $\text{CGI} = 0.13461296$, $\text{blockers} = 0$, $\text{decision} = \text{return-to-hold}$.

Proof status. roadmap-only-not-proof; $\text{truth_layer_promotion} = 0$. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Закрывать independent signature-witness и повторить signature review..

Card of Kurpishev Artifact-3

Science / field: mathematics of forecast chains.

What the artifact opens. a structure was found структура с одним оставшимся blocker between semantic fog, forecast и rebuild neighborhood.

Gap closed in the general Architecture of Mathematics and sciences. it closes локальный proof-gap: показывает, какой единственный недостающий мост мешает переводу в accept-review.

Internal theorem statement. Артефакт-3 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-031 it closes gap типа 'it closes локальный proof-gap: показывает, какой единственный недостающий мост мешает переводу в accept-review' в домене: математика прогнозных цепочек.

Formal card: FORMAL-CARD-RUN009-001; **source:** RIUD-TETRA-RUN006-031; **proof-object:** PROOF-OBJ-RUN007-0031.

Metrics: $\lambda = -1.03547809$, $\delta_{\text{truth}} = 0.0354780889$, $\text{CGI} = 0.134599215$, $\text{blockers} = 1$, $\text{decision} = \text{return-to-hold}$.

Proof status. roadmap-only-not-proof; $\text{truth_layer_promotion} = 0$. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Закрывать один remaining blocker и повторить accept-review closure..

Card of Kurpishev Artifact-4

Science / field: physics of limits and admissible futures.

What the artifact opens. the following nodes are connected forecast-fact gap, predictive limits и admissible future Reper.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between физическим предельным условием и будущим Reper-state.

Internal theorem statement. Артефакт-4 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-011 it closes gap типа 'it closes gap between

физическим предельным условием и будущим Reper-state' в домене: физика пределов и теория допустимого future.

Formal card: FORMAL-CARD-RUN009-019; **source:** RIUD-TETRA-RUN006-011; **proof-object:** PROOF-OBJ-RUN007-0011.

Metrics: lambda = -1.02878551, delta_truth = 0.0287855051, CGI = 0.160746964, blockers = 6, decision = hold.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Достроить Dom/Evidence-D/proof blockers; затем вернуть в board review..

Card of Kurpishev Artifact-5

Science / field: predictive mathematics and scenario physics.

What the artifact opens. ВЫДЕЛЕН МОСТ forecast -> predictive forecast -> admissible future Reper.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between прогнозной формулой и областью допустимых будущих состояний.

Internal theorem statement. Артефакт-5 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-010 it closes gap типа 'it closes gap between прогнозной формулой и областью допустимых будущих состояний' в домене: предсказательная математика и физика сценариев.

Formal card: FORMAL-CARD-RUN009-015; **source:** RIUD-TETRA-RUN006-010; **proof-object:** PROOF-OBJ-RUN007-0010.

Metrics: lambda = -1.03503538, delta_truth = 0.0350353771, CGI = 0.158354806, blockers = 6, decision = hold.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Достроить Dom/Evidence-D/proof blockers; затем вернуть в board review..

Card of Kurpishev Artifact-6

Science / field: spatial geometry, ecology and limit conditions.

What the artifact opens. a structure was detected пространственно-экологический limit-packet на базе event_state_limit_packet.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between Raum/пространством, экологическим пределом и будущим Reper.

Internal theorem statement. Артефакт-6 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-028 it closes gap типа 'it closes gap between Raum/пространством, экологическим пределом и будущим Reper' в домене: пространственная геометрия, экология и предельные условия.

Formal card: FORMAL-CARD-RUN009-007; **source:** RIUD-TETRA-RUN006-028; **proof-object:** PROOF-OBJ-RUN007-0028.

Metrics: lambda = -0.940908901, delta_truth = 0.0590910994, CGI = 0.141894456, blockers = 4, decision = hold.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Достроить Dom/Evidence-D/proof blockers; затем вернуть в board review..

Card of Kurpishev Artifact-7

Science / field: ecology, political dynamics and decision theory.

What the artifact opens. a motif is assembled политико-экологический Reper-мотив допустимого future.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between экологическим и политическим пределами при построении сценариев.

Internal theorem statement. Артефакт-7 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-034 it closes gap типа 'it closes gap between экологическим и политическим пределами при построении сценариев' в домене: экология, политическая динамика и теория решений.

Formal card: FORMAL-CARD-RUN009-003; **source:** RIUD-TETRA-RUN006-034; **proof-object:** PROOF-OBJ-RUN007-0034.

Metrics: lambda = -0.929506914, delta_truth = 0.0704930858, CGI = 0.13973132, blockers = 4, decision = hold.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Достроить Dom/Evidence-D/proof blockers; затем вернуть в board review..

Card of Kurpishev Artifact-8

Science / field: general theory of event@state.

What the artifact opens. a structure was found базовый event-state predictor motif с predictive limits и PredReperRecord.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between С@С-онтологией и машинной записью предиктора.

Internal theorem statement. Артефакт-8 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-001 it closes gap типа 'it closes gap between С@С-онтологией и машинной записью предиктора' в домене: общая теория события@состояния.

Formal card: FORMAL-CARD-RUN009-023; **source:** RIUD-TETRA-RUN006-001; **proof-object:** PROOF-OBJ-RUN007-0001.

Metrics: lambda = -1.07502135, delta_truth = 0.0750213467, CGI = 0.163650521, blockers = 6, decision = hold.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Достроить Dom/Evidence-D/proof blockers; затем вернуть в board review..

Card of Kurpishev Artifact-9

Science / field: proof mathematics and role-map audit.

What the artifact opens. a mechanism is showna необходимость пересборки role-map при сохранении сильной прогнозной связности.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap неправильного назначения ролей R/I/U/D.

Internal theorem statement. Артефакт-9 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-020 it closes gap типа 'it closes gap неправильного назначения ролей R/I/U/D' в домене: математика доказательств и role-map-аудит.

Formal card: FORMAL-CARD-RUN009-005; **source:** RIUD-TETRA-RUN006-020; **proof-object:** PROOF-OBJ-RUN007-0020.

Metrics: lambda = -1.07087171, delta_truth = 0.0708717147, CGI = 0.140114487, blockers = 5, decision = rebuild.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Пересобрать role-map/proof closure; повторить lambda/CGI audit..

Card of Kurpishev Artifact-10

Science / field: space-time geometry.

What the artifact opens. a structure was detected Raum-Time-Future tetra-motif.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between пространственным пределом, временным пределом и будущим Reper.

Internal theorem statement. Артефакт-10 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-027 it closes gap типа 'it closes gap between пространственным пределом, временным пределом и будущим Reper' в домене: геометрия пространства-времени.

Formal card: FORMAL-CARD-RUN009-010; **source:** RIUD-TETRA-RUN006-027; **proof-object:** PROOF-OBJ-RUN007-0027.

Metrics: lambda = -1.07795067, delta_truth = 0.07795067, CGI = 0.155086423, blockers = 5, decision = rebuild.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Пересобрать role-map/proof closure; повторить lambda/CGI audit..

Card of Kurpishev Artifact-11

Science / field: predictive mathematics.

What the artifact opens. выделена тройная связка predictive limits + predictive forecast + PredReperRecord.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between ограничениями, прогнозом и записываемым Reper-объектом.

Internal theorem statement. Артефакт-11 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-023 it closes gap типа 'it closes gap between ограничениями, прогнозом и записываемым Reper-объектом' в домене: предсказательная математика.

Formal card: FORMAL-CARD-RUN009-027; **source:** RIUD-TETRA-RUN006-023; **proof-object:** PROOF-OBJ-RUN007-0023.

Metrics: lambda = -1.11525624, delta_truth = 0.115256243, CGI = 0.170375575, blockers = 6, decision = hold.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Достроить Dom/Evidence-D/proof blockers; затем вернуть в board review..

Card of Kurpishev Artifact-12

Science / field: formal validation of the predictor.

What the artifact opens. a mechanism is shown мотив PredReperRecord + LimitOK + admissible future.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between проверкой пределов и регистрацией future Reper.

Internal theorem statement. Артефакт-12 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-007 it closes gap типа 'it closes gap between проверкой пределов и регистрацией future Reper' в домене: формальная валидация предиктора.

Formal card: FORMAL-CARD-RUN009-022; **source:** RIUD-TETRA-RUN006-007; **proof-object:** PROOF-OBJ-RUN007-0007.

Metrics: lambda = -1.12475253, delta_truth = 0.124752525, CGI = 0.161701892, blockers = 6, decision = hold.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Достроить Dom/Evidence-D/proof blockers; затем вернуть в board review..

Card of Kurpishev Artifact-13

Science / field: physics of time and space.

What the artifact opens. a structure was found мотив Raum + predictive_reper_record + Time.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between пространственной локализацией и временной фиксацией предиктора.

Internal theorem statement. Артефакт-13 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-033 it closes gap типа 'it closes gap between пространственной локализацией и временной фиксацией предиктора' в домене: физика времени и пространства.

Formal card: FORMAL-CARD-RUN009-018; **source:** RIUD-TETRA-RUN006-033; **proof-object:** PROOF-OBJ-RUN007-0033.

Metrics: lambda = -1.13665077, delta_truth = 0.136650773, CGI = 0.159899209, blockers = 6, decision = hold.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Достроить Dom/Evidence-D/proof blockers; затем вернуть в board review..

Card of Kurpishev Artifact-14

Science / field: ontology of time.

What the artifact opens. a motif is assembled Time-Ontology-Future motif.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between онтологическим пределом и временной допустимостью future состояния.

Internal theorem statement. Артефакт-14 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-035 it closes gap типа 'it closes gap between онтологическим пределом и временной допустимостью future состояния' в домене: онтология времени.

Formal card: FORMAL-CARD-RUN009-009; **source:** RIUD-TETRA-RUN006-035; **proof-object:** PROOF-OBJ-RUN007-0035.

Metrics: lambda = -1.14233862, delta_truth = 0.142338624, CGI = 0.150879989, blockers = 6, decision = hold.

Proof status. roadmap-only-not-proof; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Достроить Dom/Evidence-D/proof blockers; затем вернуть в board review..

Card of Kurpishev Artifact-15

Science / field: publication and registration contour of the invention.

What the artifact opens. the following nodes are connected forecast-fact gap, nearest rebuild, predictive forecast и PredReperRecord как маршрут к FIPS/site materialization.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between математическим артефактом и публикационно-регистрационным пакетом.

Internal theorem statement. Артефакт-15 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-019 it closes gap типа 'it closes gap between математическим артефактом и публикационно-регистрационным пакетом' в домене: публикационный и регистрационный контур изобретения.

Formal card: FORMAL-CARD-RUN009-004; **source:** RIUD-TETRA-RUN006-019; **proof-object:** PROOF-OBJ-RUN007-0019.

Metrics: lambda = -1.16247594, delta_truth = 0.162475941, CGI = 0.140025307, blockers = 6, decision = A15-FIPS-FINAL-FIELDS-SEAL.

Proof status. publication-draft-route; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Перед реальной подачей вручную перенести поля в актуальную форму ФИПС/Роспатента; приложить только утверждённые public/deposit материалы; не раскрывать controlled Evidence-D..

Card of Kurpishev Artifact-16

Science / field: methodology of repeated audit.

What the artifact opens. a candidate is fixeda сырая зона повторного аудита без formal-card.

Gap closed in the general Architecture of Mathematics and sciences. it closes не положительный, а диагностический gap: показывает область, где нельзя объявлять theorem-candidate без карты.

Internal theorem statement. Артефакт-16 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-012 it closes gap типа 'it closes не положительный, а диагностический gap: показывает область, где нельзя объявлять theorem-candidate без карты' в домене: методология повторного аудита.

Formal card: FC-A016-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-012; **proof-object:** PROOF-OBJ-RUN007-0012.

Metrics: lambda = -1.11715319, delta_truth = 0.117153189, CGI = 0.251555104, blockers = 999, decision = REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD.

Proof status. audit-hold; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

Card of Kurpishev Artifact-17

Science / field: formal bases of the predictor.

What the artifact opens. расширен formal-card для PredReperRecord + LimitOK.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap board-return between формальной записью и проверкой пределов.

Internal theorem statement. Артефакт-17 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-008 it closes gap типа 'it closes gap board-return between формальной записью и проверкой пределов' в домене: формальные базы предиктора.

Formal card: FORMAL-CARD-RUN009-026; **source:** RIUD-TETRA-RUN006-008; **proof-object:** PROOF-OBJ-RUN007-0008.

Metrics: lambda = -1.17689185, delta_truth = 0.176891851, CGI = 0.169986243, blockers = 6, decision = BOARD-RETURN-FORMAL-CARD-EXPANDED.

Proof status. pre-proof-board-ready; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Передать расширенную formal-card в board review: Dom, Evidence-D, proof-object, proof-dependency и rejection criteria ДОЛЖНЫ БЫТЬ проверены ОТДЕЛЬНО..

Card of Kurpishev Artifact-18

Science / field: biology of health and predictive health.

What the artifact opens. the following nodes are connected forecast gap, nearest rebuild, PredReperRecord и predictive_health.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between health-state и причинной пересборкой.

Internal theorem statement. Артефакт-18 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-021 it closes gap типа 'it closes gap between health-state и причинной пересборкой' в домене: биология здоровья и predictive health.

Formal card: FORMAL-CARD-RUN009-017; **source:** RIUD-TETRA-RUN006-021; **proof-object:** PROOF-OBJ-RUN007-0021.

Metrics: lambda = -1.19897942, delta_truth = 0.198979425, CGI = 0.1597933, blockers = 6, decision = BOARD-RETURN-FORMAL-CARD-EXPANDED.

Proof status. pre-proof-board-ready; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Передать расширенную formal-card в board review: Dom, Evidence-D, proof-object, proof-dependency и rejection criteria ДОЛЖНЫ БЫТЬ проверены ОТДЕЛЬНО..

Card of Kurpishev Artifact-19

Science / field: biology of health and event@state.

What the artifact opens. the following nodes are connected event_state_limit_packet, predictive_health и predictive_reper_record.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between биологическим state, записью и достаточным D.

Internal theorem statement. Артефакт-19 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-006 it closes gap типа 'it closes gap between

биологическим state, записью и достаточным D' в домене: биология здоровья и событие@состояние.

Formal card: FORMAL-CARD-RUN009-030; **source:** RIUD-TETRA-RUN006-006; **proof-object:** PROOF-OBJ-RUN007-0006.

Metrics: lambda = -1.19870139, delta_truth = 0.19870139, CGI = 0.172853555, blockers = 6, decision = BOARD-RETURN-FORMAL-CARD-EXPANDED.

Proof status. pre-proof-board-ready; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Передать расширенную formal-card в board review: Dom, Evidence-D, proof-object, proof-dependency и rejection criteria должны быть проверены отдельно..

Card of Kurpishev Artifact-20

Science / field: raw health audit.

What the artifact opens. a candidate is fixed необработанный health/predictive candidate.

Gap closed in the general Architecture of Mathematics and sciences. it closes диагностический gap: запрещает преждевременное присвоение theorem-status.

Internal theorem statement. Артефакт-20 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-015 it closes gap типа 'it closes диагностический gap: запрещает преждевременное присвоение theorem-status' в домене: сырой health-аудит.

Formal card: FC-A020-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-015; **proof-object:** PROOF-OBJ-RUN007-0015.

Metrics: lambda = -1.17300878, delta_truth = 0.173008778, CGI = 0.261518584, blockers = 999, decision = REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD.

Proof status. audit-hold; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

Card of Kurpishev Artifact-21

Science / field: spatial-ecological modeling.

What the artifact opens. a structure was found Raum/Ecology/predictive_reper_record motif с требованием role-map rebuild.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between пространством, экологией и предикторной записью.

Internal theorem statement. Артефакт-21 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-036 it closes gap типа 'it closes gap between пространством, экологией и предикторной записью' в домене: пространственно-экологическое моделирование.

Formal card: FORMAL-CARD-RUN009-008; **source:** RIUD-TETRA-RUN006-036; **proof-object:** PROOF-OBJ-RUN007-0036.

Metrics: lambda = -1.20308781, delta_truth = 0.203087813, CGI = 0.14601758, blockers = 9, decision = ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2.

Proof status. rebuild-open; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Пересобрать role-map, proof-object link и lambda/lambda2/Q; повторить gate после верификации Dom и Evidence-D..

Card of Kurpishev Artifact-22

Science / field: biology of health and admissible future states.

What the artifact opens. the following nodes are connected predictive_health и admissible_future_reper.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between health-индикатором и future-Reper.

Internal theorem statement. Артефакт-22 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-014 it closes gap типа 'it closes gap between health-индикатором и future-Reper' в домене: биология здоровья и допустимые будущие состояния.

Formal card: FORMAL-CARD-RUN009-021; **source:** RIUD-TETRA-RUN006-014; **proof-object:** PROOF-OBJ-RUN007-0014.

Metrics: lambda = -1.21428044, delta_truth = 0.214280437, CGI = 0.161547873, blockers = 9, decision = ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2.

Proof status. rebuild-open; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Пересобрать role-map, proof-object link и lambda/lambda2/Q; повторить gate после верификации Dom и Evidence-D..

Card of Kurpishev Artifact-23

Science / field: interdisciplinary raw candidate layer.

What the artifact opens. a candidate is fixed неполный мультидоменный кандидат.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap методической честности: объект сохраняется, но не повышается.

Internal theorem statement. Артефакт-23 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-024 it closes gap типа 'it closes gap методической честности: объект сохраняется, но не повышается' в домене: междисциплинарный raw candidate layer.

Formal card: FC-A023-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-024; **proof-object:** PROOF-OBJ-RUN007-0024.

Metrics: lambda = -1.22472309, delta_truth = 0.224723093, CGI = 0.258420754, blockers = 999, decision = REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD.

Proof status. audit-hold; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

Card of Kurpishev Artifact-24

Science / field: negative evidence in the bio/health contour.

What the artifact opens. оформлен negative evidence-lock как необходимый элемент науки о горах.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap фальсификации: negative результат сохраняется как структурное знание.

Internal theorem statement. Артефакт-24 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-005 it closes gap типа 'it closes gap фальсификации: negative результат сохраняется как структурное знание' в домене: негативное свидетельство в bio/health контуре.

Formal card: FORMAL-CARD-RUN009-024; **source:** RIUD-TETRA-RUN006-005; **proof-object:** PROOF-OBJ-RUN007-0005.

Metrics: lambda = -1.30751923, delta_truth = 0.307519225, CGI = 0.164423941, blockers = 10, decision = NEGATIVE-EVIDENCE-FORMAL-CARD-LOCK.

Proof status. negative-evidence; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Сохранить reject-preserved как отрицательное свидетельство; альтернативную role-map держать только в candidate layer..

Card of Kurpishev Artifact-25

Science / field: negative evidence in the limits/health contour.

What the artifact opens. a structure was found несовместимость predictive limits и predictive_health на текущем gate.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap, где плохая связка должна быть сохранена, а не стерта.

Internal theorem statement. Артефакт-25 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-018 it closes gap типа 'it closes gap, где плохая связка должна быть сохранена, а не стерта' в домене: негативное свидетельство в контуре limits/health.

Formal card: FORMAL-CARD-RUN009-028; **source:** RIUD-TETRA-RUN006-018; **proof-object:** PROOF-OBJ-RUN007-0018.

Metrics: lambda = -1.34684514, delta_truth = 0.346845135, CGI = 0.171850283, blockers = 10, decision = NEGATIVE-EVIDENCE-FORMAL-CARD-LOCK.

Proof status. negative-evidence; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Сохранить reject-preserved как отрицательное свидетельство; альтернативную role-map держать только в candidate layer..

Card of Kurpishev Artifact-26

Science / field: predictive mathematics of records.

What the artifact opens. a structure was detected объект forecast + predictive record с требованием role-map rebuild.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between forecast и стабильной записью Reper.

Internal theorem statement. Артефакт-26 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-004 it closes gap типа 'it closes gap between forecast и стабильной записью Reper' в домене: прогнозная математика записей.

Formal card: FORMAL-CARD-RUN009-025; **source:** RIUD-TETRA-RUN006-004; **proof-object:** PROOF-OBJ-RUN007-0004.

Metrics: lambda = -1.24136112, delta_truth = 0.24136112, CGI = 0.169605342, blockers = 9, decision = ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2.

Proof status. rebuild-open; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Пересобрать role-map, proof-object link и lambda/lambda2/Q; повторить gate после верификации Dom и Evidence-D..

Card of Kurpishev Artifact-27

Science / field: validation of limits.

What the artifact opens. the following nodes are connected PredReperRecord, admissible future и LimitOK.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between проверкой предела и будущей допустимостью.

Internal theorem statement. Артефакт-27 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-016 it closes gap типа 'it closes gap between проверкой предела и будущей допустимостью' в домене: валидация пределов.

Formal card: FORMAL-CARD-RUN009-016; **source:** RIUD-TETRA-RUN006-016; **proof-object:** PROOF-OBJ-RUN007-0016.

Metrics: lambda = -1.25807392, delta_truth = 0.258073918, CGI = 0.158729691, blockers = 9, decision = ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2.

Proof status. rebuild-open; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Пересобрать role-map, proof-object link и lambda/lambda2/Q; повторить gate после верификации Dom и Evidence-D..

Card of Kurpishev Artifact-28

Science / field: KLT predictive program.

What the artifact opens. the following nodes are connected predictive_forecast и admissible_future_reper.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between прогнозом и конструкцией допуска future.

Internal theorem statement. Артефакт-28 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-002 it closes gap типа 'it closes gap between прогнозом и конструкцией допуска future' в домене: предсказательная программа KLT.

Formal card: FORMAL-CARD-RUN009-020; **source:** RIUD-TETRA-RUN006-002; **proof-object:** PROOF-OBJ-RUN007-0002.

Metrics: lambda = -1.28067907, delta_truth = 0.280679074, CGI = 0.161340023, blockers = 9, decision = ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2.

Proof status. rebuild-open; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Пересобратить role-map, proof-object link и lambda/lambda2/Q; повторить gate после верификации Dom и Evidence-D..

Card of Kurpishev Artifact-29

Science / field: limits and predictive record.

What the artifact opens. the following nodes are connected predictive limits и predictive_reper_record.

Gap closed in the general Architecture of Mathematics and sciences. it closes gap between ограничением сценария и машинной записью.

Internal theorem statement. Артефакт-29 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-003 it closes gap типа 'it closes gap between ограничением сценария и машинной записью' в домене: пределы и predictive record.

Formal card: FORMAL-CARD-RUN009-029; **source:** RIUD-TETRA-RUN006-003; **proof-object:** PROOF-OBJ-RUN007-0003.

Metrics: lambda = -1.2627079, delta_truth = 0.262707903, CGI = 0.172038267, blockers = 9, decision = ROLE-MAP-FORMAL-CARD-REBUILD-BATCH-2.

Proof status. rebuild-open; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Пересобратить role-map, proof-object link и lambda/lambda2/Q; повторить gate после верификации Dom и Evidence-D..

Card of Kurpishev Artifact-30

Science / field: mathematics.

What the artifact opens. a candidate is fixed raw-кандидат для будущей теоремной карты.

Gap closed in the general Architecture of Mathematics and sciences. it closes карту unknown zone: показывает незаполненный участок Architecture of Mathematics.

Internal theorem statement. Артефакт-30 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-017 it closes gap типа 'it closes карту unknown zone: показывает незаполненный участок Architecture of Mathematics' в домене: математика.

Formal card: FC-A030-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-017; **proof-object:** PROOF-OBJ-RUN007-0017.

Metrics: lambda = -1.38997529, delta_truth = 0.38997529, CGI = 0.255033409, blockers = 999, decision = REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD.

Proof status. audit-hold; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

Card of Kurpishev Artifact-31

Science / field: physics.

What the artifact opens. a candidate is fixed raw-кандидат для causal/limit-проверки.

Gap closed in the general Architecture of Mathematics and sciences. it closes карту unknown zone в физическом graph-layer.

Internal theorem statement. Артефакт-31 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-009 it closes gap типа 'it closes карту unknown zone в физическом graph-layer' в домене: физика.

Formal card: FC-A031-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-009; **proof-object:** PROOF-OBJ-RUN007-0009.

Metrics: lambda = -1.33400169, delta_truth = 0.334001693, CGI = 0.257607518, blockers = 999, decision = REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD.

Proof status. audit-hold; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

Card of Kurpishev Artifact-32

Science / field: chemistry.

What the artifact opens. a candidate is fixed raw-кандидат для future химического Репер-графа.

Gap closed in the general Architecture of Mathematics and sciences. it closes карту unknown zone between формулой, веществом, средой и Evidence-D.

Internal theorem statement. Артефакт-32 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-013 it closes gap типа 'it closes карту unknown zone between формулой, веществом, средой и Evidence-D' в домене: ХИМИЯ.

Formal card: FC-A032-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-013; **proof-object:** PROOF-OBJ-RUN007-0013.

Metrics: lambda = -1.47402163, delta_truth = 0.474021628, CGI = 0.26790329, blockers = 999, decision = REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD.

Proof status. audit-hold; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

Card of Kurpishev Artifact-33

Science / field: biology.

What the artifact opens. a candidate is fixed raw-кандидат для carrier-графа структура-функция-среда.

Gap closed in the general Architecture of Mathematics and sciences. it closes карту unknown zone в биологических переходах.

Internal theorem statement. Артефакт-33 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-022 it closes gap типа 'it closes карту unknown zone в биологических переходах' в домене: биология.

Formal card: FC-A033-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-022; **proof-object:** PROOF-OBJ-RUN007-0022.

Metrics: lambda = -1.39706004, delta_truth = 0.397060035, CGI = 0.27341473, blockers = 999, decision = REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD.

Proof status. audit-hold; truth_layer_promotion = 0. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

Card of Kurpishev Artifact-34

Science / field: DNA and genomics.

What the artifact opens. a candidate is fixed raw-кандидат для Rep_DNA = (sequence,function,mutation/expression; evidence).

Gap closed in the general Architecture of Mathematics and sciences. it closes карту unknown zone between последовательностью и функцией.

Internal theorem statement. Артефакт-34 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-025 it closes gap типа 'it closes карту unknown zone between последовательностью и функцией' в домене: ДНК и геномика.

Formal card: FC-A034-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-025; **proof-object:** PROOF-OBJ-RUN007-0025.

Metrics: $\lambda = -1.40900159$, $\delta_{\text{truth}} = 0.409001588$, $\text{CGI} = 0.289066009$, $\text{blockers} = 999$, $\text{decision} = \text{REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD}$.

Proof status. audit-hold; $\text{truth_layer_promotion} = 0$. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

Card of Kurpishev Artifact-35

Science / field: economics and finance.

What the artifact opens. a candidate is fixed raw-кандидат для сценарного graph-layer.

Gap closed in the general Architecture of Mathematics and sciences. it closes карту unknown zone between индикатором, риском, источником и нормативным D.

Internal theorem statement. Артефакт-35 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-026 it closes gap типа 'it closes карту unknown zone between индикатором, риском, источником и нормативным D' в домене: экономика и финансы.

Formal card: FC-A035-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-026; **proof-object:** PROOF-OBJ-RUN007-0026.

Metrics: $\lambda = -1.69761702$, $\delta_{\text{truth}} = 0.697617015$, $\text{CGI} = 0.353279867$, $\text{blockers} = 999$, $\text{decision} = \text{REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD}$.

Proof status. audit-hold; $\text{truth_layer_promotion} = 0$. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

Card of Kurpishev Artifact-36

Science / field: banking and regulation.

What the artifact opens. a candidate is fixed raw-кандидат для banking Reper graph.

Gap closed in the general Architecture of Mathematics and sciences. it closes карту unknown zone between банковским объектом, нормативом, отчётностью и risk-D.

Internal theorem statement. Артефакт-36 Курпишева утверждает, что a structure was foundный объект RIUD-TETRA-RUN006-032 it closes gap типа 'it closes карту

unknown zone between банковским объектом, нормативом, отчётностью и risk-D' в домене: банковское дело и регуляторика.

Formal card: FC-A036-RUN089-SKELETON; **source:** RIUD-TETRA-RUN006-032; **proof-object:** PROOF-OBJ-RUN007-0032.

Metrics: $\lambda = -2.05394077$, $\delta_{\text{truth}} = 1.05394077$, $\text{CGI} = 0.366054589$, $\text{blockers} = 999$, $\text{decision} = \text{REPEAT-AUDIT-FORMAL-CARD-SKELETON-HELD}$.

Proof status. audit-hold ; $\text{truth_layer_promotion} = 0$. The artifact is treated as an internal KLT-RBD theorem-candidate / roadmap object, not as an externally proved theorem.

Next action: Повторить координатную сборку RIUD, снизить blockers, отделить coordinate defect от theorem-candidate; не создавать public theorem claim..

10. RUN-108 conclusion

RUN-108 strengthens the monograph: Kurpishev Artifacts become content-bearing maps of structural gap closure. Artifact-1 is the central reference: it shows how a formula, a source, a proof-object, a D-foundation, λ proximity and low CGI combine into one internally provable KLT-RBD status. The remaining 35 artifacts distribute this idea across mathematics, physics, chemistry, biology, DNA, economics, finance and banking.