

Harmony of Truth in Resolving Aporias: Achilles, Kant and Plato

Ivan Borisovich Kurpishev

2026

Contents

Abstract	1
1. Truth as harmonic closure	1
2. Achilles and the tortoise	1
3. Kant and Plato	2
4. Conclusion	2
Sources and references	2

Abstract

The article treats harmony of truth as a method of resolving aporias. Achilles and the tortoise, as well as Kant and Plato, are read as mixed reductions of FOS.

1. Truth as harmonic closure

$$\text{Truth}_W(c) \iff \text{Dom}_W(c) \wedge D_c \wedge \text{cr}(U_c, I_c; R_c, D_c) = -1.$$

2. Achilles and the tortoise

Achilles moves on a metric scale; the tortoise is held by an affine connection:

$$A(t) \in W_{met}, \quad T(u) \in W_{aff}.$$

Reaching requires

$$\mu : W_{aff} \rightarrow W_{met}.$$

Without D_μ the aporia is not resolved inside the model.

3. Kant and Plato

Kant is modeled as central-affine; Plato as central-projective. Kant has

$$K = (P_\infty, L_\infty),$$

whereas Plato has

$$P = (\Omega).$$

No invertible morphism $K \rightarrow P$ can preserve two Kantian limits and collapse them into one Platonic absolute without a new foundation.

4. Conclusion

Aporia is a signal of mixed reductions. Harmony of truth demands explicit domain, morphism and foundation.

Sources and references

[Kurpishev-5.0] Kurpishev I.B. *Monograph 5.0: Kurpishev Logic. Non-associative packet Reper logic, NAPG 3.0, VP physics, anthropology of reversal and KLT/RBD appendices**. Kaliningrad, 2026. Master corpus package.

[PILOT-01] Kurpishev I.B. *Reper-Projective Architecture of Formula Chains: PILOT-01. Final bilingual preprint review and the Fano plane as an ontological barrier*. 2026.

[DK-v5.1] Kurpishev I.B. *The Desargues-Kurpishev Theorem: a full mathematical article*. v5.1, 2026.

[TS-v5.3] Kurpishev I.B. *The Interval in Kurpishev Time@Space as a harmonically complex relation of limiting amplitudes of PIX@PEAKS fields*. v5.3, 2026.

[FTA-v5.4] Kurpishev I.B. *The Fundamental Theorem of Algebra in packet form in Kurpishev Time@Space*. v5.4, 2026.

[FOS-v5.5] Kurpishev I.B. *Kurpishev Fundamental Support Connectivity: Reper limit, Size@Dimensionality and reduction of worlds*. v5.5, 2026.

[Bourbaki] Bourbaki N. *The Architecture of Mathematics* / Russian translation in Mathematical Education, issue 5, 1960, pp. 99-112.

[Ponarin] Ponarin Ya.P. *Affine and Projective Geometry*. Moscow: MCCME, 2009.

[Arnold] Arnold V.I. *Geometry of Complex Numbers, Quaternions and Spins*. Moscow: MCCME, 2002.

[Rashevsky] Rashevsky P.K. *Riemannian Geometry and Tensor Analysis*. Moscow: Nauka, 1967.

[Bibler] Bibler V.S. *Kant - Galileo - Kant. The Reason of Modernity in the Paradoxes of Self-Foundation*. Moscow: Mysl, 1991.

[Oizerman-Narsky] Oizerman T.I., Narsky I.S. *Kant's Theory of Knowledge*. Moscow: Nauka, 1991.

[Kline-Truth] Kline M. *Mathematics: The Search for Truth*. Russian edition, Moscow: Mir, 1988.

[Kline-Certainty] Kline M. *Mathematics: The Loss of Certainty*. Russian edition, Moscow: Mir, 1984.

[Ayer] Ayer A.J. *Language, Truth and Logic*. Russian edition, Moscow: Kanon+, 2010.

[Schrodinger] Schrodinger E. *Mind and Matter*. Russian edition, Izhevsk, 2000.

[Chem50] Stakheev A.Yu. *All Chemistry in 50 Tables*. Moscow: MIROS, 1998.