


Sergey Trofimov

Independent Researcher

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Research Interests

Political ontology, deontic logic, set theory, complexity theory, asymmetric conflict, formal models of agency, philosophy of power.

Current Work

I am developing the **Theory of Axiomatics** — a formal framework that models political and strategic actors through their internal logical structure. The theory introduces a metric called **Axiomatic Complexity (S)**, derived from:

- Zermelo-Fraenkel set theory (boundaries and filtering)
- Von Wright's deontic logic (obligation, permission, prohibition)
- Zadeh's fuzzy sets (degrees of membership and contradiction)

The framework aims to explain why resource-dominant systems often lose to "simpler" opponents, and to predict strategic paralysis before it occurs.

Publications

2025 — *"The Logic of Paralysis: Deontic Topology and the Axiomatic Complexity of Political Agency"*

PhilPapers / PhilArchive

[DOI / URL, если есть]

Abstract: This paper applies the Theory of Axiomatics to the U.S. war in Afghanistan (2001–2021), demonstrating how a superpower's internal contradictions outweighed its material superiority. It introduces the concepts of "Slime State" (entropy), "Clenched State" (paralysis), and "Crystal System" (low-complexity agency).

Selected Presentations / Work in Progress

- *Axiomatic Complexity and the Geometry of Power* (in preparation)
 - *The Zermelo Filter: How to Prune Contradictory Mandates* (draft)
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Academic Background

Independent research since [год, если хочешь указать]

Previous work at the intersection of political theory, logic, and systems analysis.