

Abstract Submitted  
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**Physics Proofs of Four Millennium-Problems(MP) via CATEGORY-SEMANTICS(C-S)/F=C Aristotle SQUARE-of-OPPOSITION(SoO) DEduction-LOGIC DichotomY LONDON CLAY, FUZZYICS=CATEGORYICS(SON OF TRIZ)/Brookline, EDWARD CARL-LUDWIG SIEGEL, FUZZYICS=CATEGORYICS(SON OF TRIZ)/La Jolla/Las Vegas — Siegel-Baez Cognitive-Category-Semantics”(C-C-S) tabular list-format matrix truth-table analytics SoO jargonial-obfuscation elimination query WHAT? yields four ”pure”-maths MP ”Feet of Clay!!!” proofs: (1) Siegel [AMS Natl.Mtg.(02)-Abs.973-03-126: (CCNY;64)!!!<<<(94;Wiles)] Fermat’s: Last-Thm. = Least-Action Ppl.; (2) P=/=NP TRIVIAL simple Euclid geometry/dimensions: NO computer anything”Feet of Clay!!!”; (3) Birch-Swinnerton-Dyer conjecture; (4) Riemann-hypotheses via COMBO.: Siegel[AMS Natl.Mtg.(02)-Abs.973-60-124] digits log-law inversion to ONLY BEQS with ONLY zero-digit BEC, AND Rayleigh[1870;graph-thy.”short-CUT method” [Doyle-Snell, Random-Walks & Electric-Nets,MAA(81)]-”Anderson” [(58)] critical-strip C-localization!!! SoO DichotomY (”V”) Identity: #s:( Euler v Bernoulli) = (Sets v Multisets) = Quantum-Statistics(FD v BE) = Power-Spectra( $1/f^{\wedge}(0)$  v  $1/f^{\wedge}(1)$ ) = Conic-Sections(Ellipse v Hyperbola) = Extent(Locality v Globality);Siegel[(89)] (so MIScalled) ”complexity” as UTTER-SIMPLICITY(!!!) v COMPLICATEDNESS MEASURE(S) definition.**

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FUZZYICS=CATEGORYICS(SON OF TRIZ)

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