

Prime Front — extracted research

Historical source: `introduction.tex` at revision `ba2f0fc`. Original labels, results and caveats are retained; extraction changes ownership only. Complete original: `provenance/tfpt-source`. The publication assembly omits presentation boxes around excerpts.

Contents

Kernel-Loewner positivity harvest (2026-09-01; suite 1009 $\rightarrow$ 1010, ledger 1173 $\rightarrow$ 1174):
[\[verification/v1017_kernel_loewner_positivity.py\]](#) certifies $\lambda_*(0.3) \geq 2.1 \times 10^{-3}$ on $\text{supp}(h) \subset [-0.3, 0.3]$ (PRIME.RDAGGER.KERNEL_LOEWNER.01, Numerical/certified float64, not interval, not [\[E\]](#);
 enclosed floor 2.122×10^{-3} ; r496 compact-tail NO_GO at $L = 0.8$ is the named method boundary).
 No RH statement.

fence: the trace-free completion is zero-free and pole-free in $\text{Re } s > 1/2$; the splitting is open and RH-equivalent; no RH claim).

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The multiway reading of the arithmetic Hecke tower has meanwhile been *measured out* rather than narrated ([\[verification/v747_automaton_multiway_tower.py\]](#), 24/24; [\[verification/v748_automaton_sigma_orbifold\]](#), 15/15): confluence is exactly Hecke commutativity (= CRT), the branchial structure is the $[4, 2]_q$ Grassmann cell count, the σ -quotient is confluent everywhere with only the half-orbit *weighting* breaking at the ramified place — the adjudication is *equivalently useful*, i.e. the Zuse/Wolfram lens falls back exactly onto the known structure and rests as documented exploration.