

Prime Front — extracted research

Historical source: `tfpt_4_frontier.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, new row PRIME.RDAGGER.KERNEL_LOEWNER.01, Numerical/certified float64, not [E]): [verification/v1017_kernel_loewner_positivity.py] re-derives the r494/r495 certificate — $Q_W(h) \geq 2.1 \times 10^{-3} \|h\|_2^2$ on $\text{supp}(h) \subset [-0.3, 0.3]$ (prime-free: $2L < \log 2$), enclosed floor 2.122×10^{-3} after a $3 \times$ Hilbert-Schmidt tail charge; the r496 compact-tail NO_GO at $L = 0.8$ is the named method boundary, not hidden. No cofinal claim; 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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