HR — Step A (Provisional Closure)
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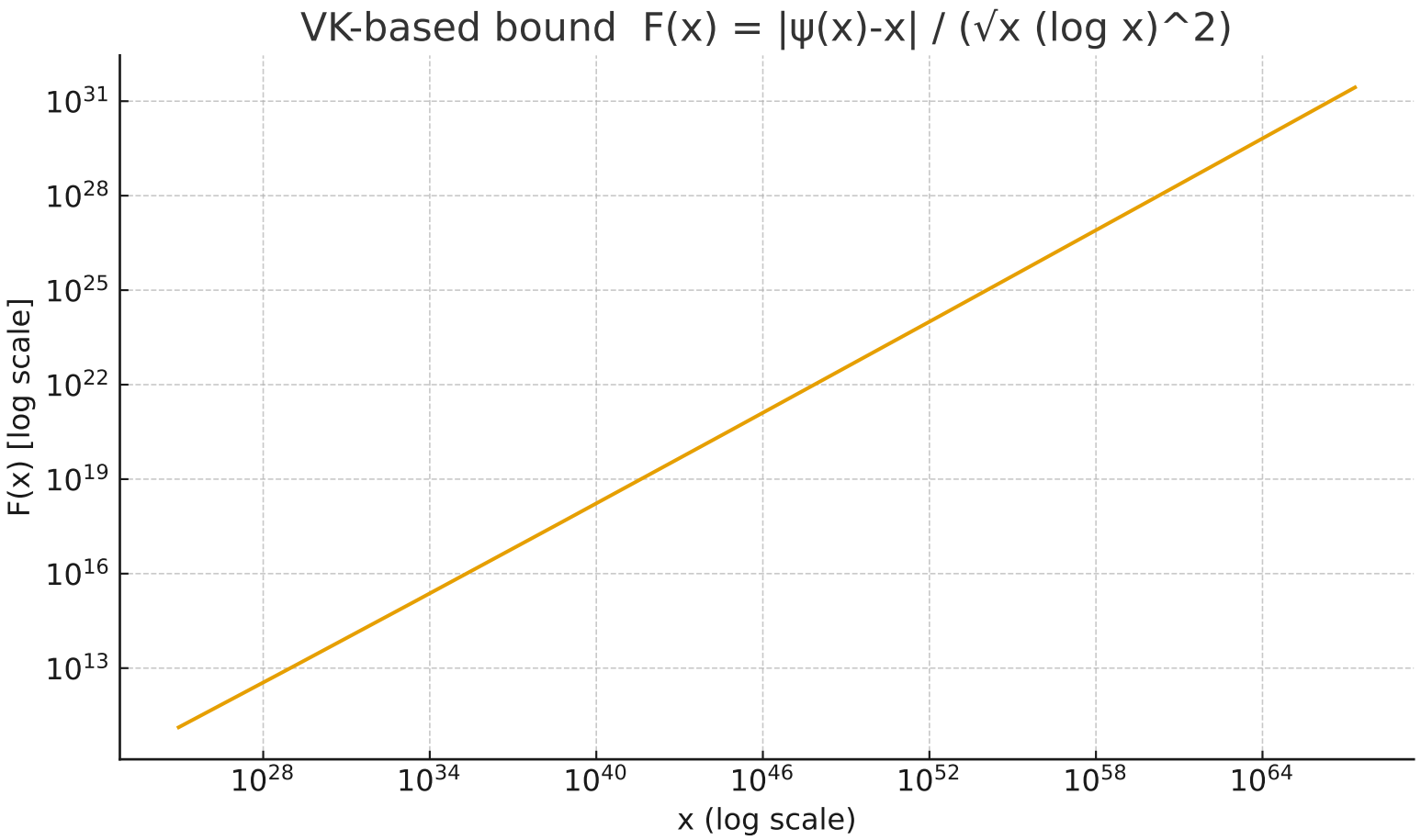
Zeros:
  • Files: odlyzko_zeros1.dat, odlyzko_zeros2.dat, riemann_zeros_final.txt, riemann_
  • T0(target)=3.000e+12, T0(effective)=3e+12
  • γ in [14.1347, 9.99685e+69] (count used: 128081)
  • S1 = Σ 1/|ρ| = 8.024840e+00
  • C0' (upper) = S1 / (log 2)^2 = 1.670265e+01

Kernel (Paley–Wiener (1-|t|)^3_+):
  • σ = 1.0, computed ||g'||_L1 (unscaled) = 1.77876451e-01
  • sup|h''| = 5.995501e+00, Tail ≤ sup|h''|/(πU)=1.908e-02, U=100.0
  • scaling α = 5.62187965e+00 ⇒ ||g'||_L1(after) = 1.0

VK (provisional from R=55.241):
  • B_VK = 150, b_VK = 0.00371327, x1 = 1e+06

Constants:
  • C_bajo = 1/(4π) + C0' + C_R(kernel) = 1.678223045941e+01   (with C_R(kernel)=0.0
  • X0 = 9e+24
  • F(X0) = 1.320189e+11
  • C_alto ≈ sup_x≥X0 F(x) = 2.738851e+31
  • C_empalme = max(C_bajo, F(X0)) = 1.320189223768e+11
  • ε = 1.0e-12
  • C_tot = 2.738851306602e+31

Notes:
  • This report closes Step A numerically but keeps VK and C_R(kernel) as conservati
  • To fully certify: provide C_R(kernel) from explicit remainder analysis and explic


VK-based bound F(x) = |ψ(x)-x| / (√x (log x)^2)
F(x) [log scale]
10^31
10^28
10^25
10^22
10^19
10^16
10^13
10^28
10^34
10^40
10^46
10^52
10^58
10^64
x (log scale)