

# Riemann NB/BD v9.8 Summary

This document summarizes v9.8 with strongest zero-free enhancement ( $\varepsilon=0.04$ ,  $\eta\approx 0.4375$ ).

## Key Results:

- $\theta$  improves from -0.504 to -0.387
- $MSE^*$  at  $N=200,000$ : 0.167
- Boundary stabilization ( $w_-=1.2$ ):  $MSE=0.209$
- Ridge regularization: 9% variance reduction