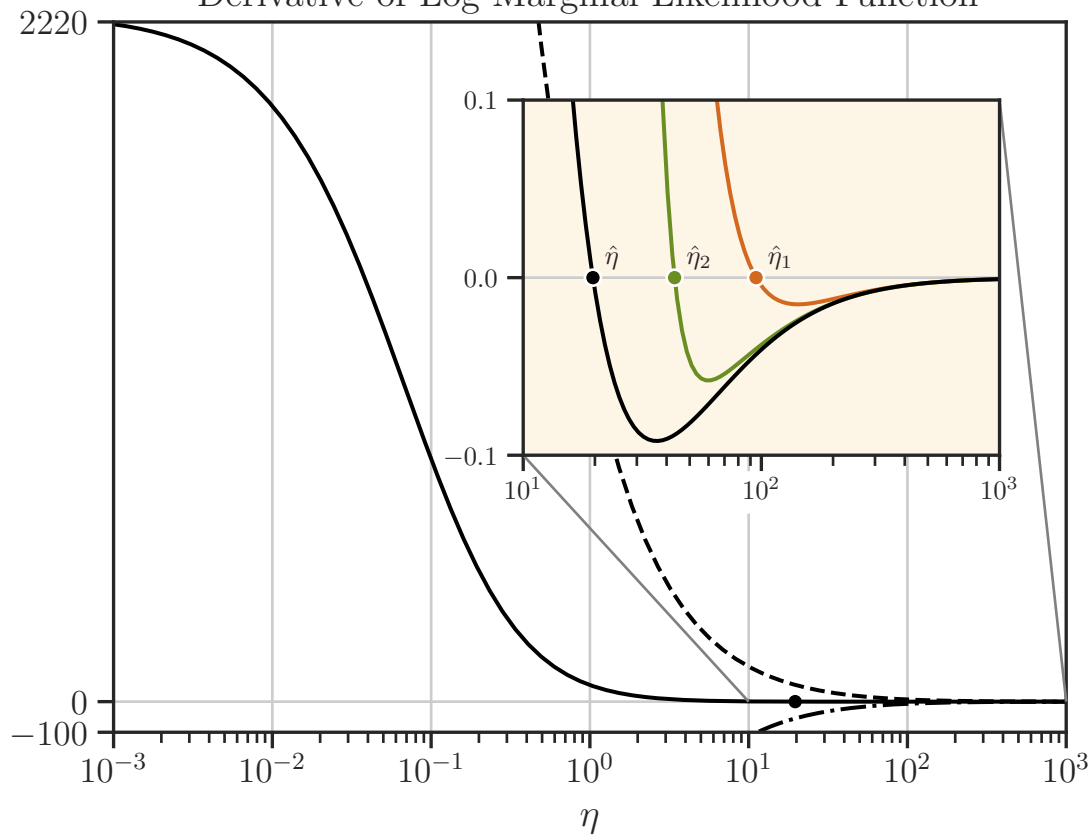


Derivative of Log Marginal Likelihood Function

$d\ell_{\hat{\sigma}^2(\eta)}(\eta)/d\eta$



- Upper bound
- .- Lower bound
- Exact
- 1st order asymptote
- 2nd order asymptote
- Exact root at $\hat{\eta} = 10^{1.29}$
- Approximated root at $\hat{\eta}_1 = 10^{1.98}$
- Approximated root at $\hat{\eta}_2 = 10^{1.64}$