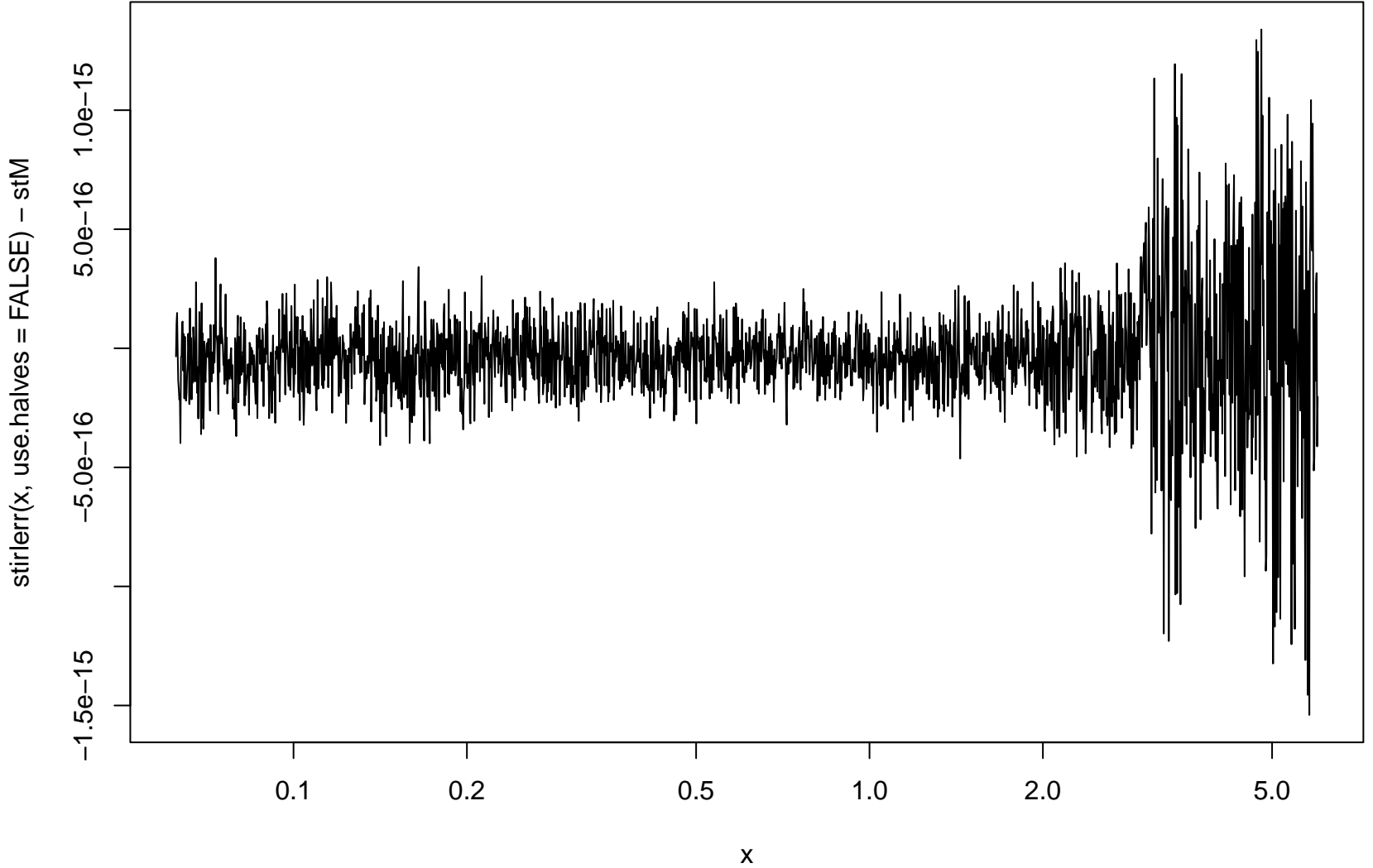
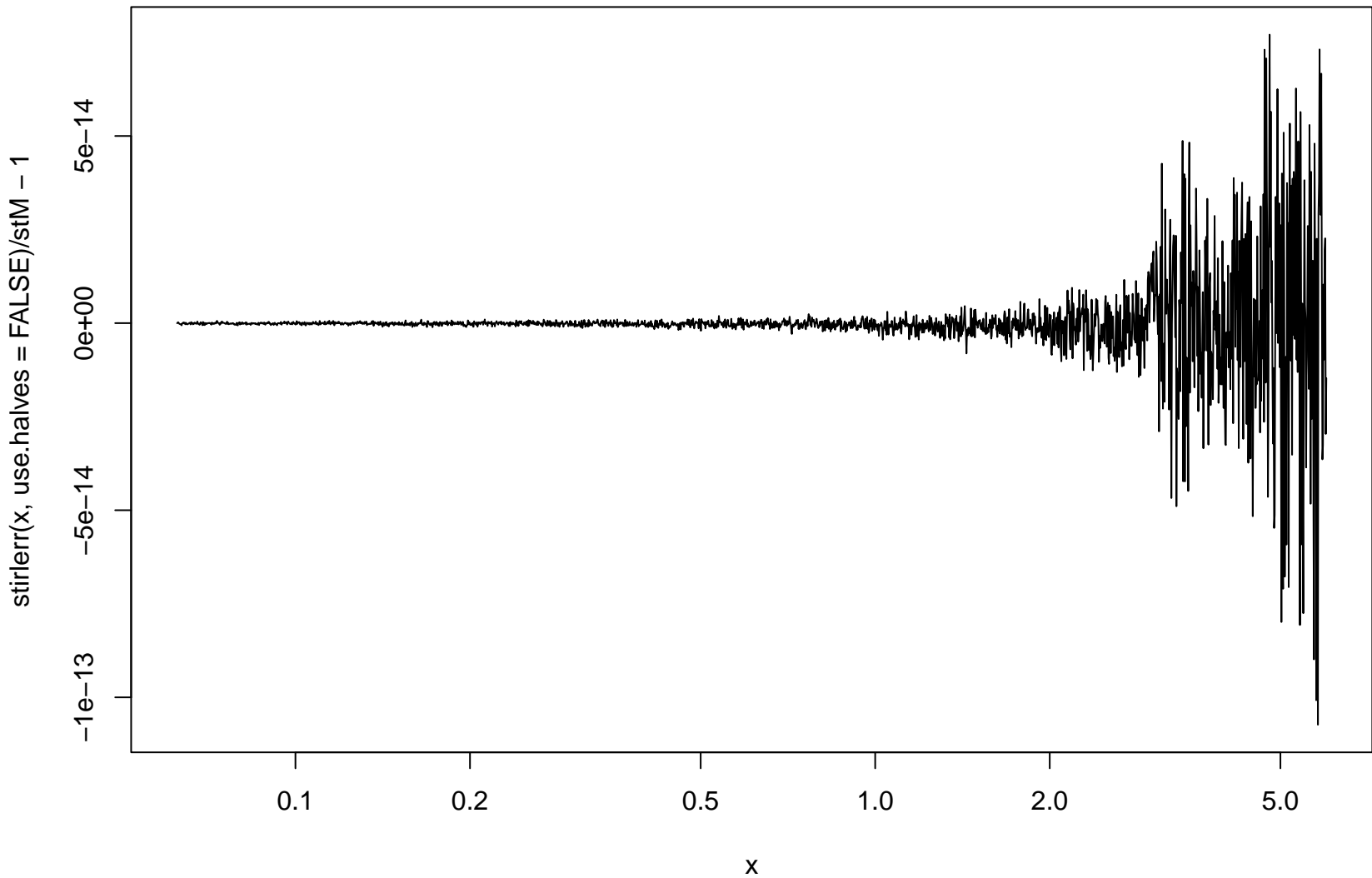


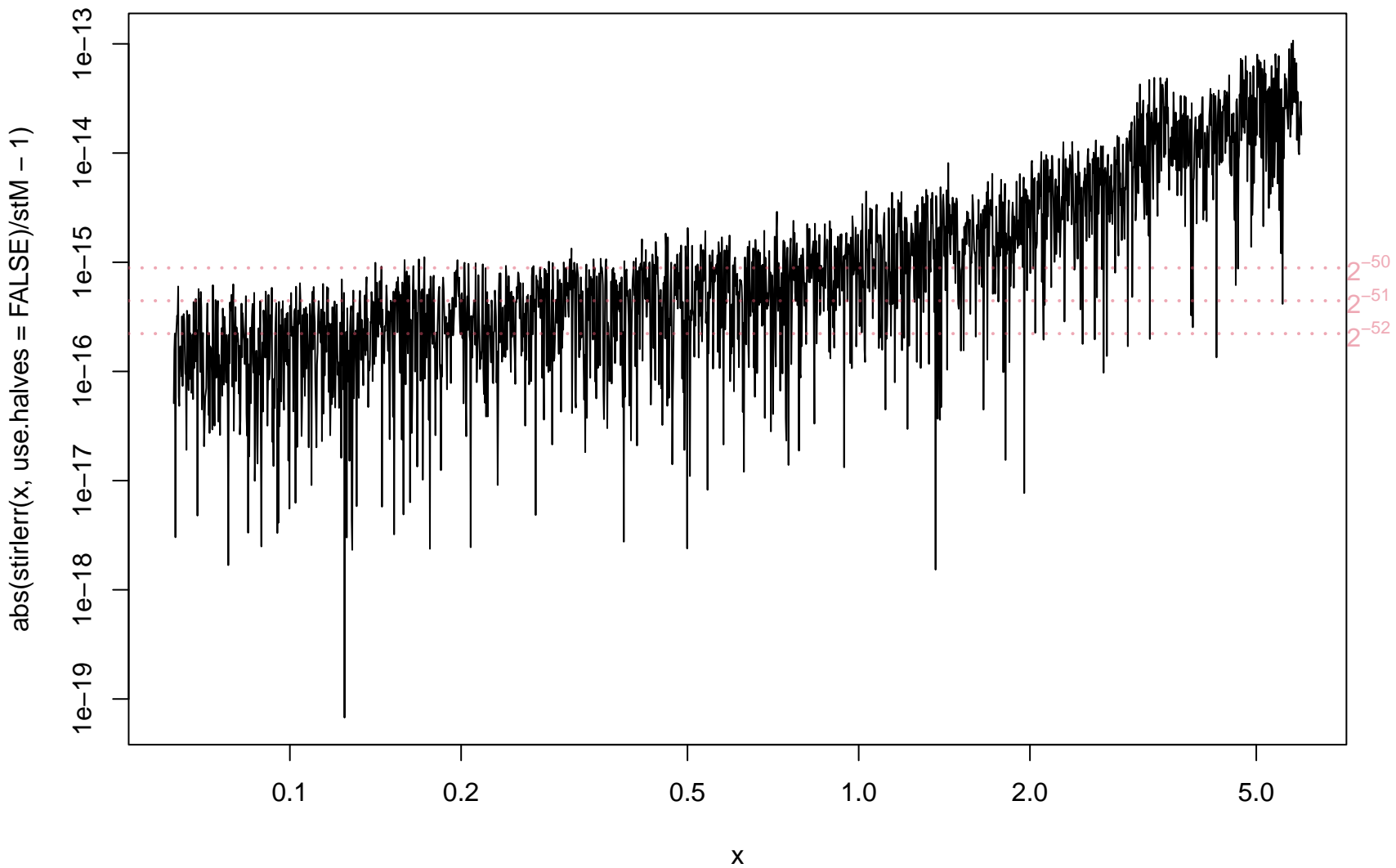
absolute Error

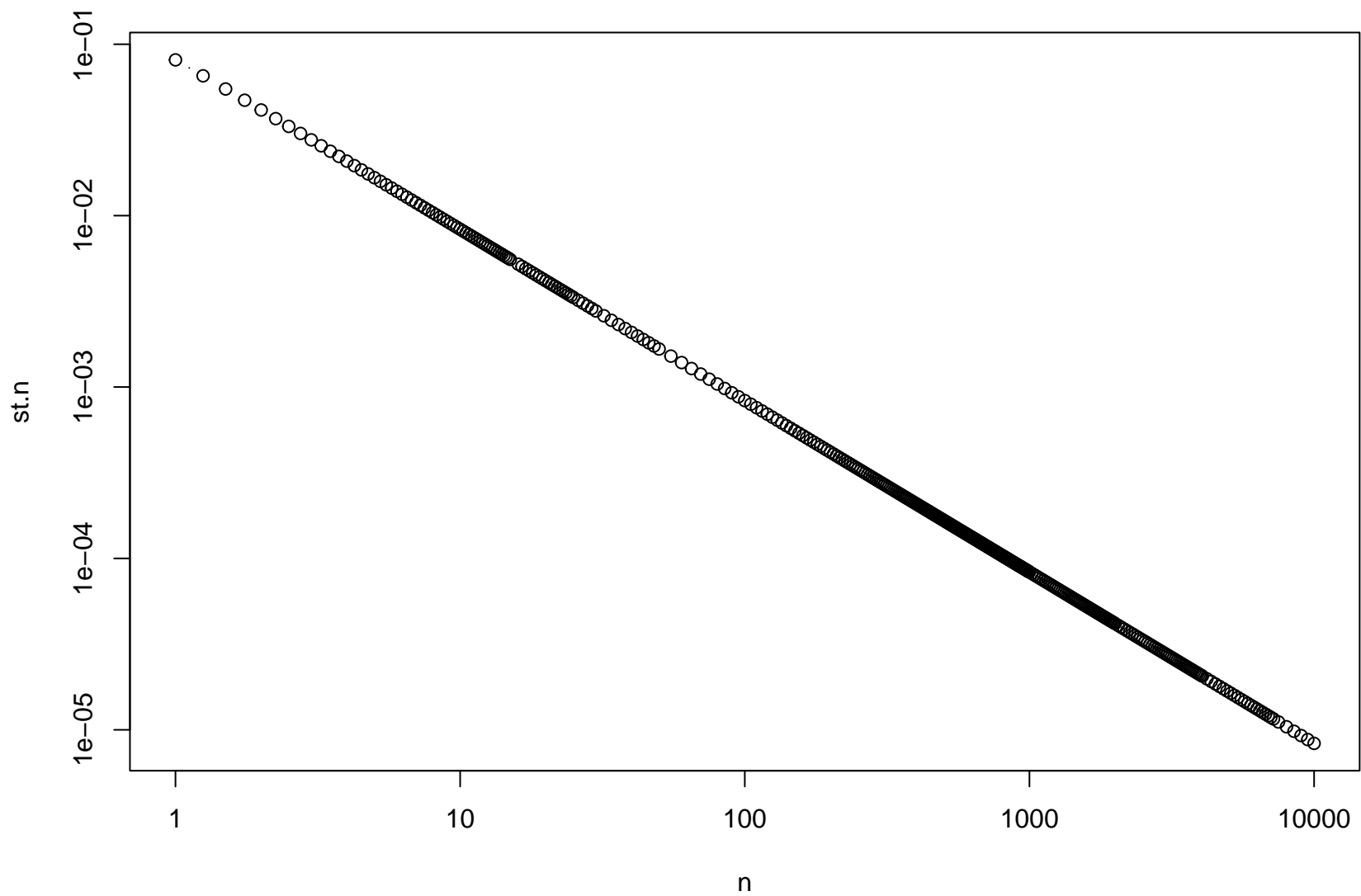


relative Error



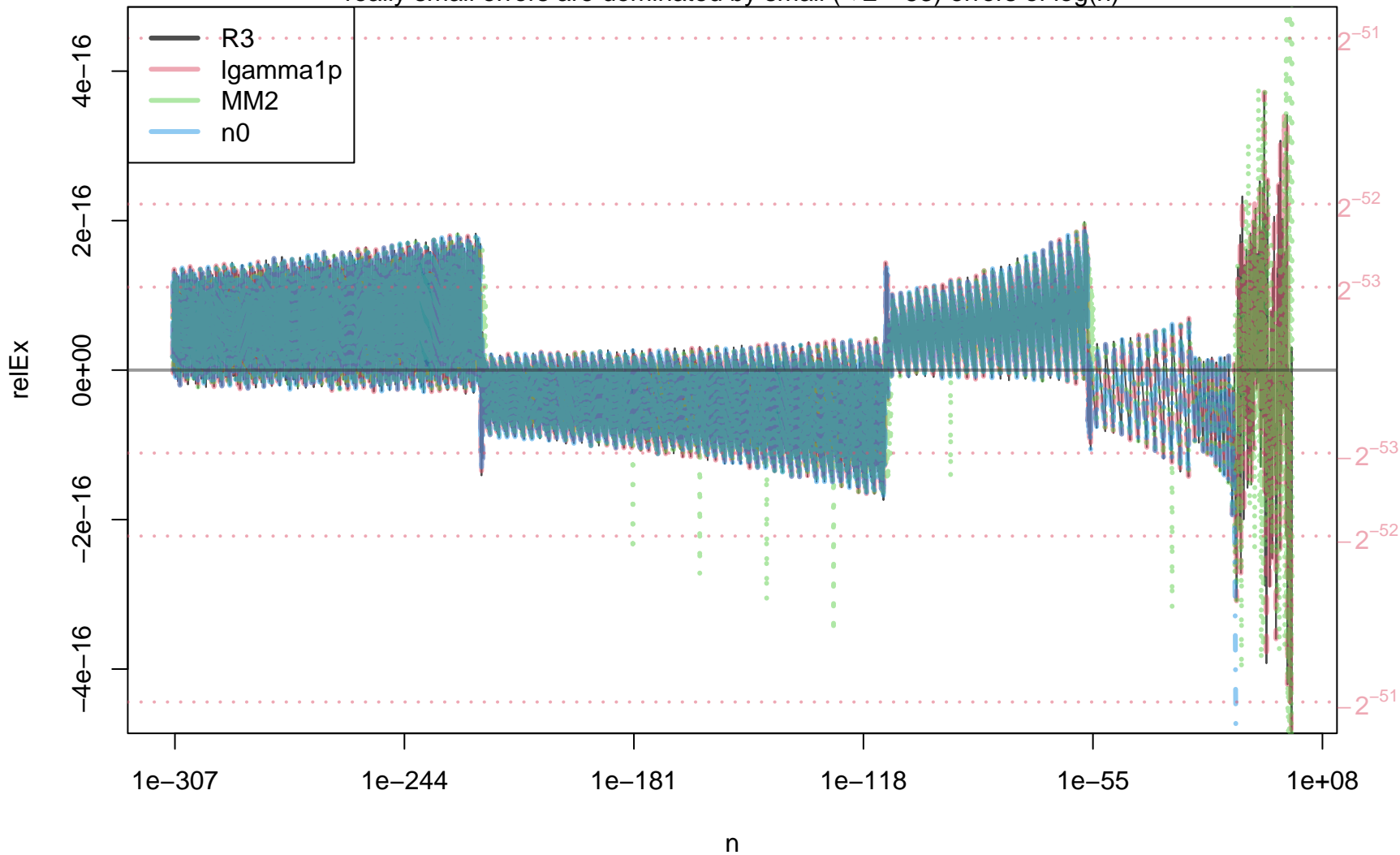
|relative Error|



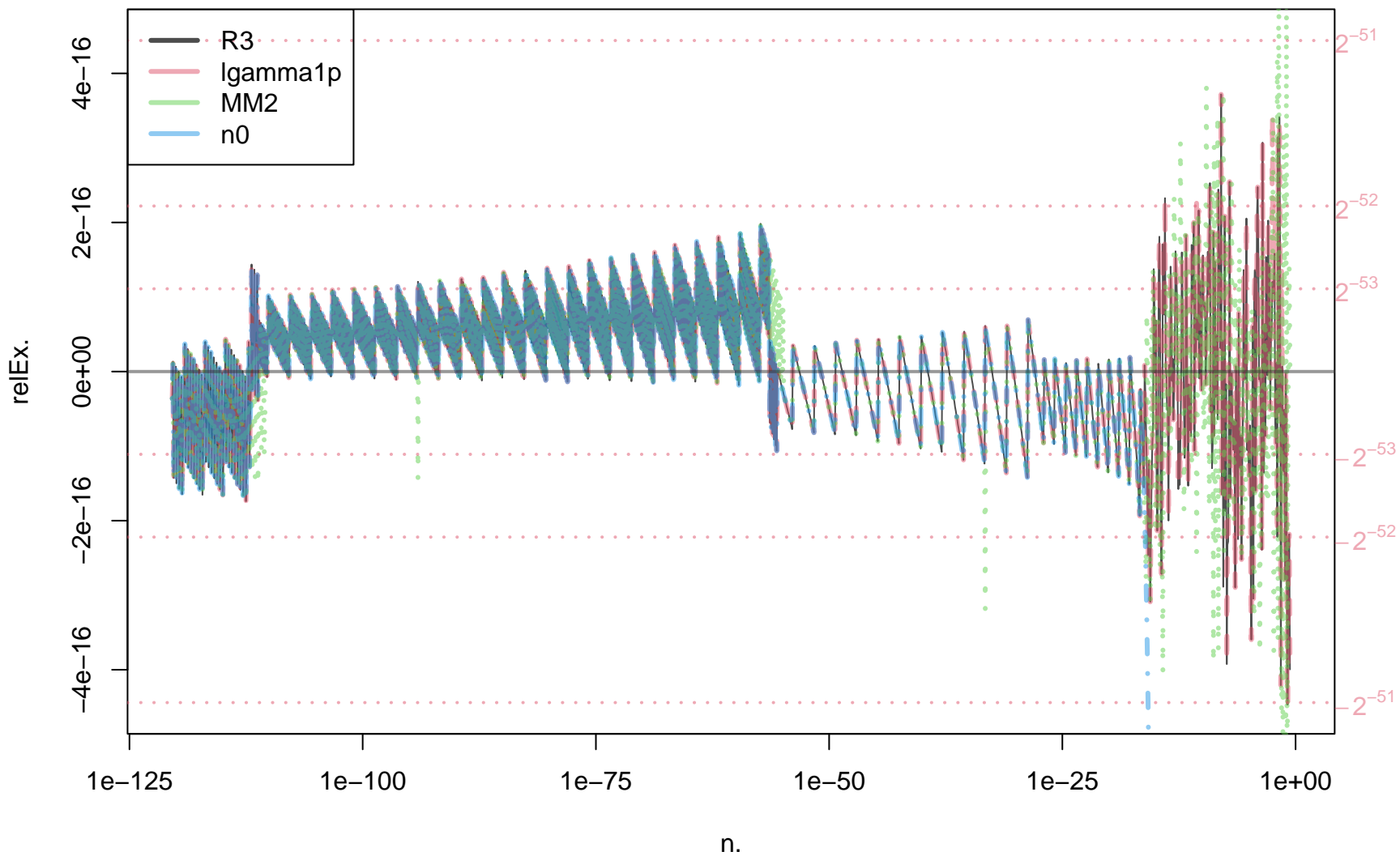


relative errors of direct (approx.) formula for stirlerr(n), small n

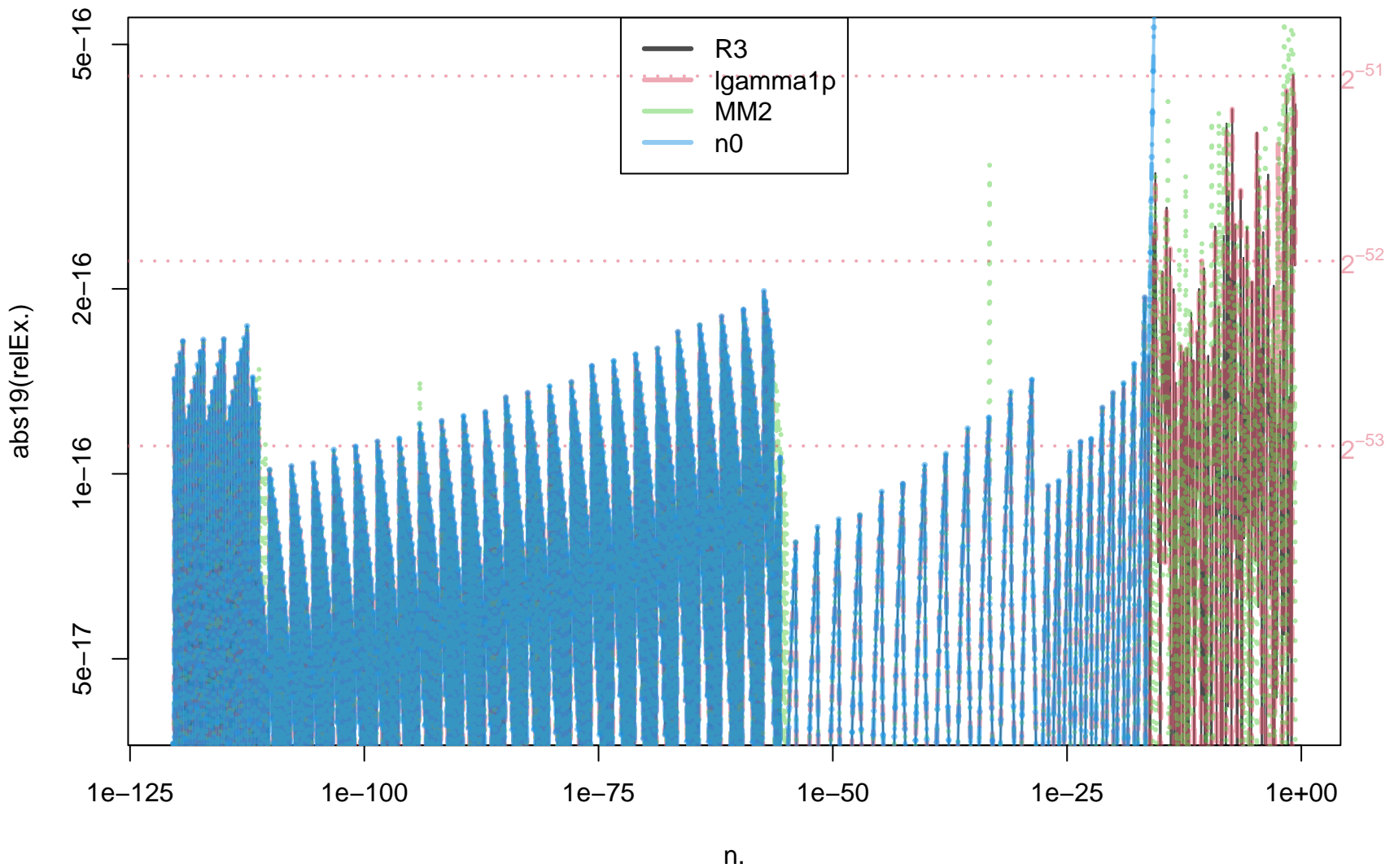
really small errors are dominated by small ($< 2^{-53}$) errors of $\log(n)$



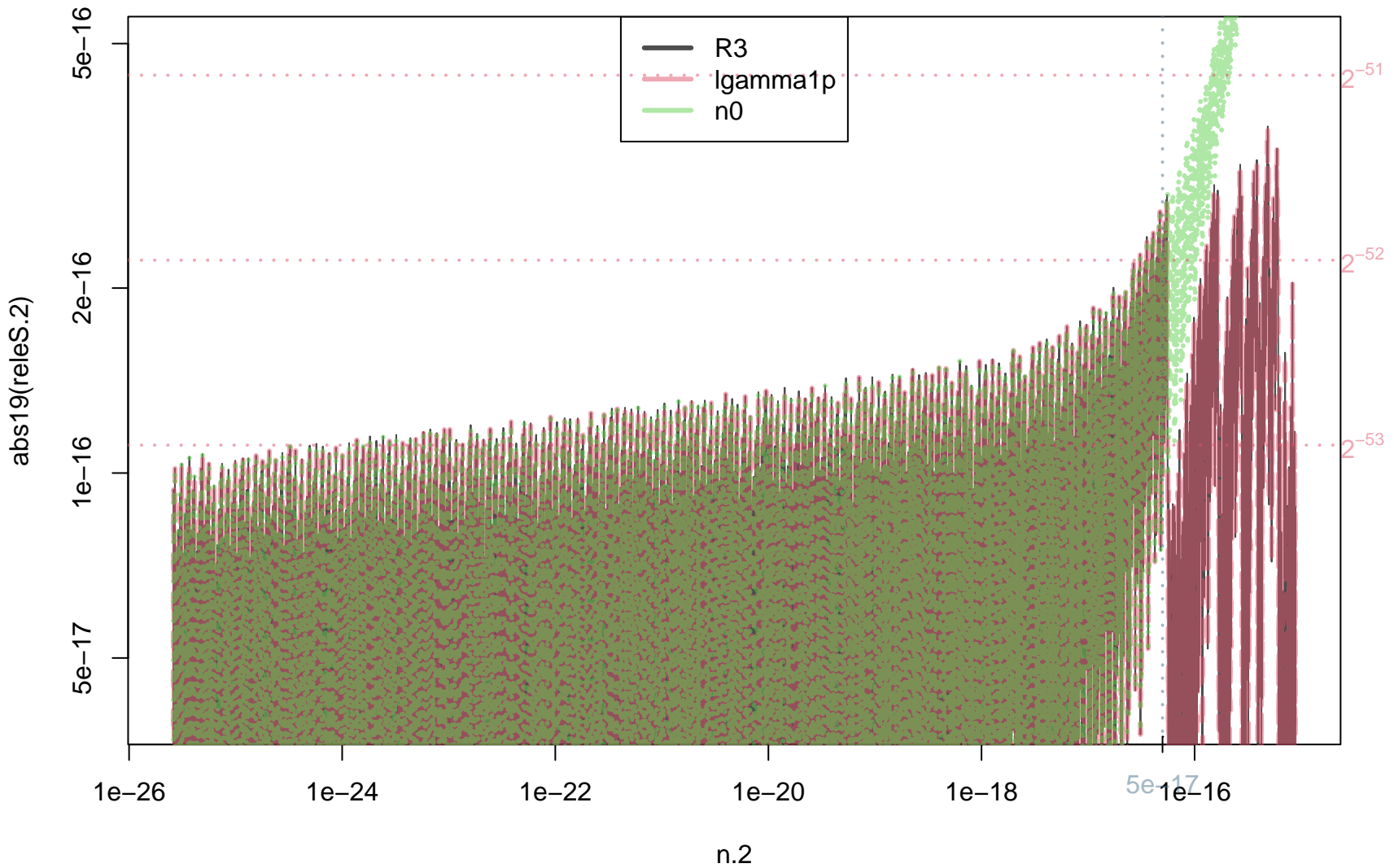
relative errors of direct (approx.) formula for stirlerr(n), small n



$|\text{relErr}(\text{stirlerr_simpl}(n, *))|$

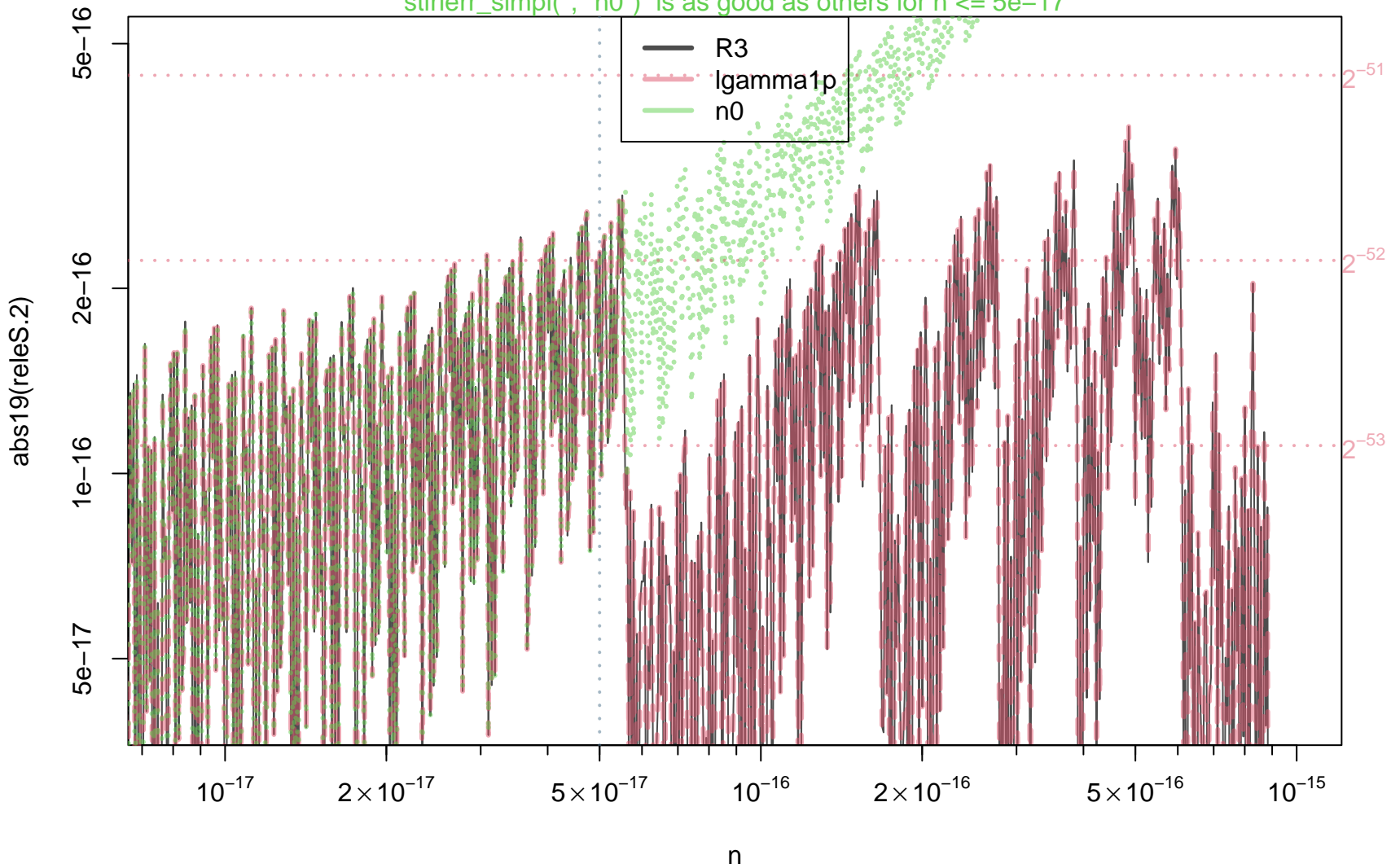


$|\text{relErr}(\text{stirlerr_simpl}(n, *))|$

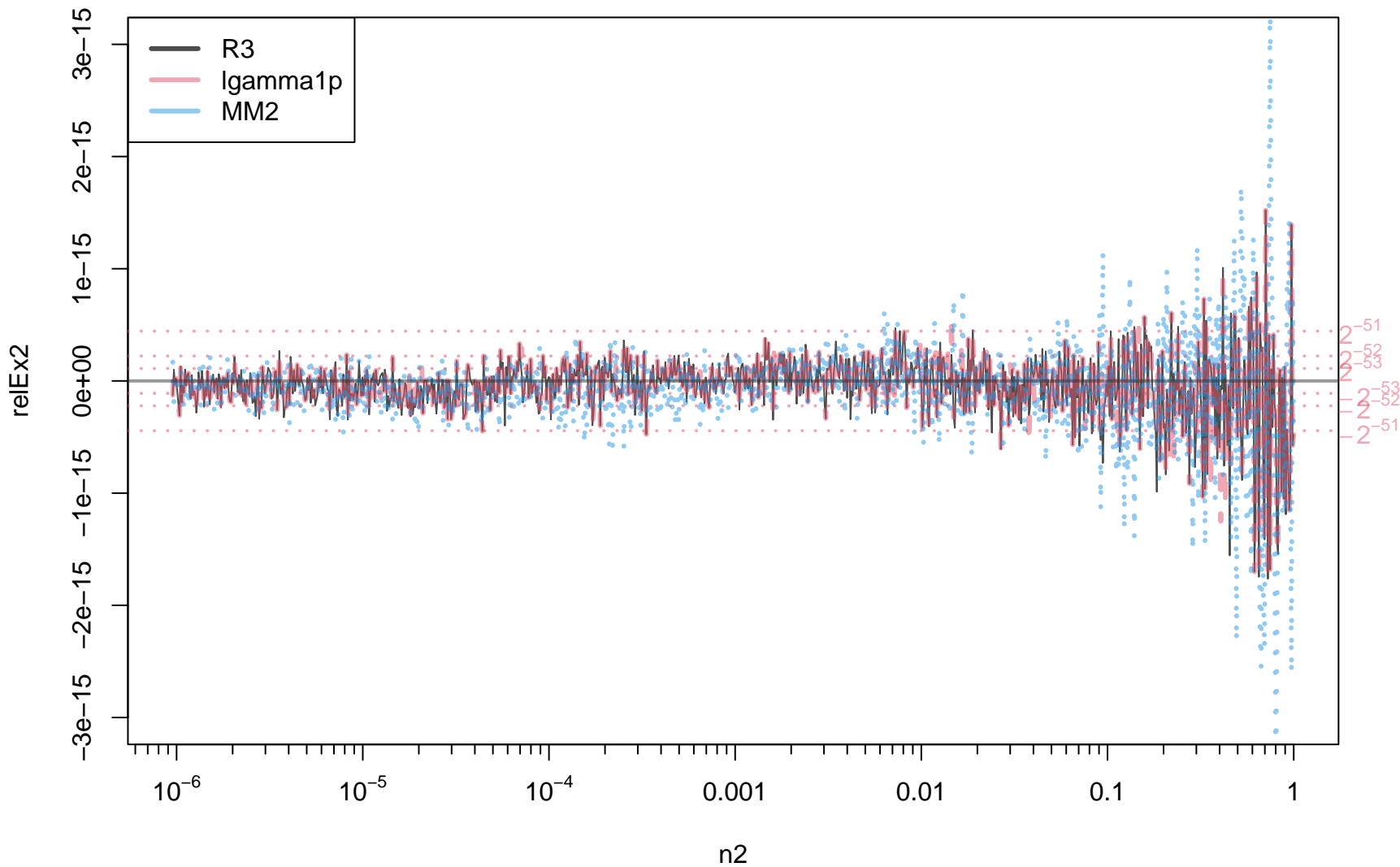


$|\text{relErr}(\text{stirlerr_simpl}(n, *))|$

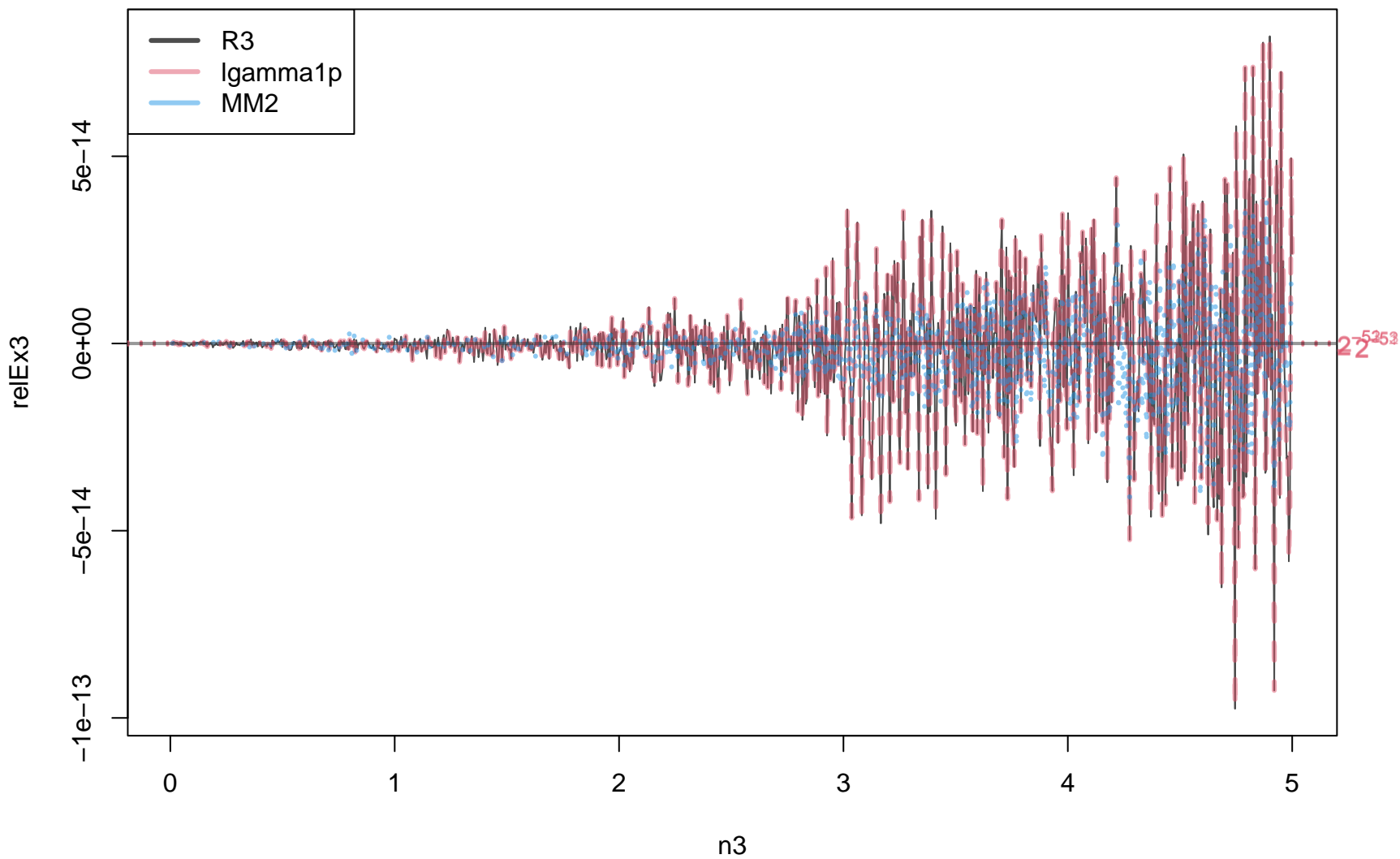
$\text{stirlerr_simpl}(*, "n0")$ is as good as others for $n \leq 5e-17$



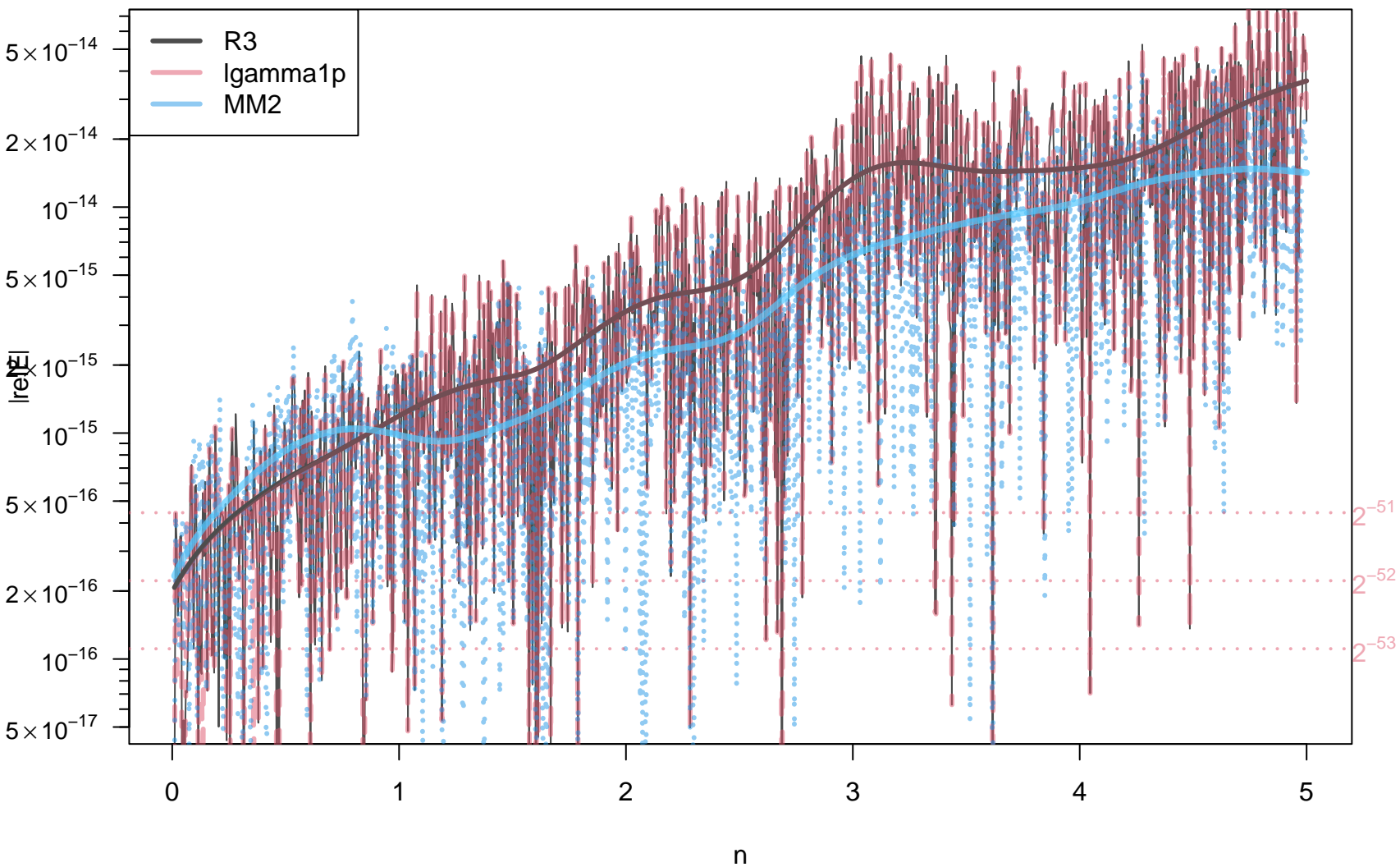
relative errors of direct (approx.) formula for stirlerr(n), small n

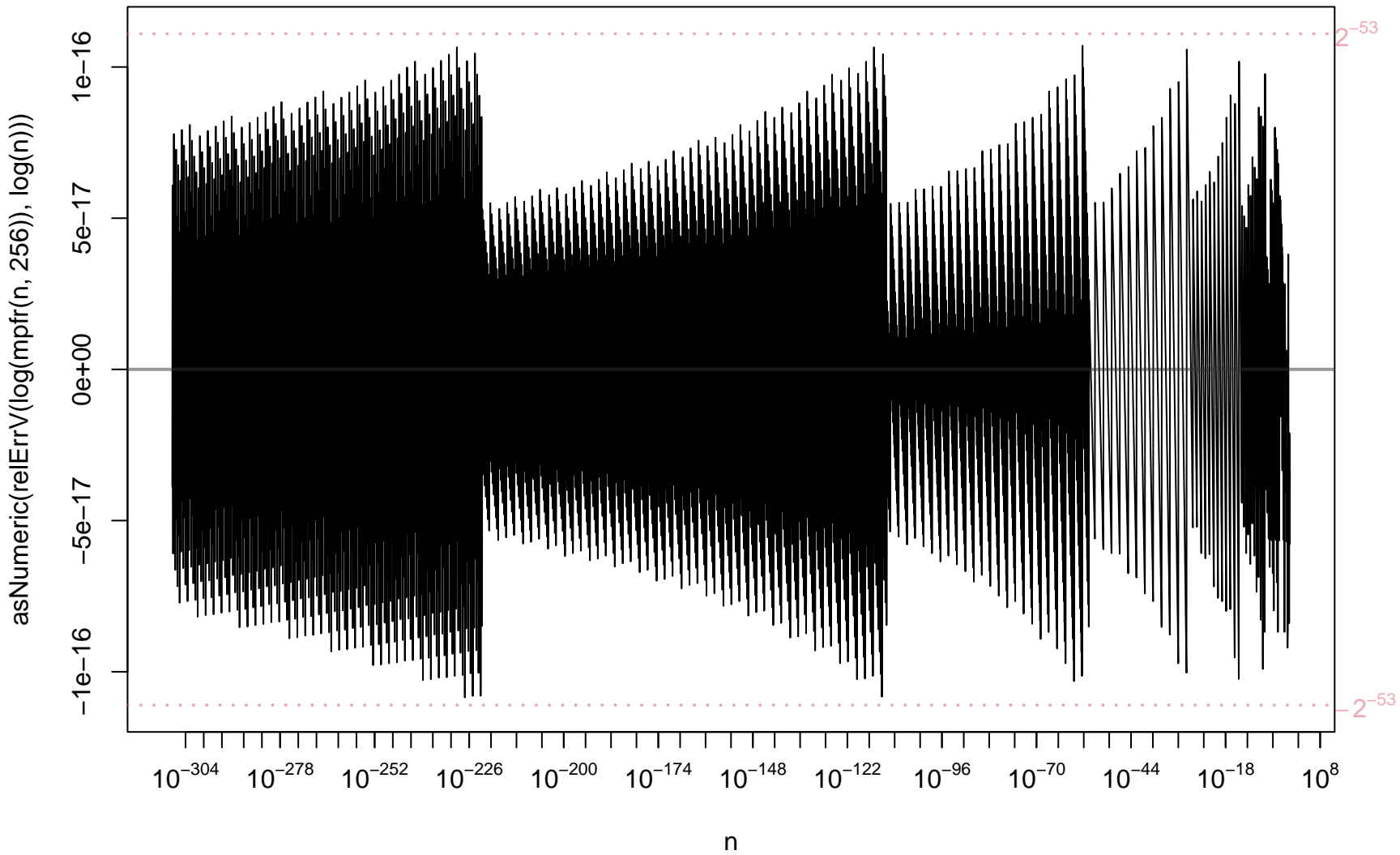


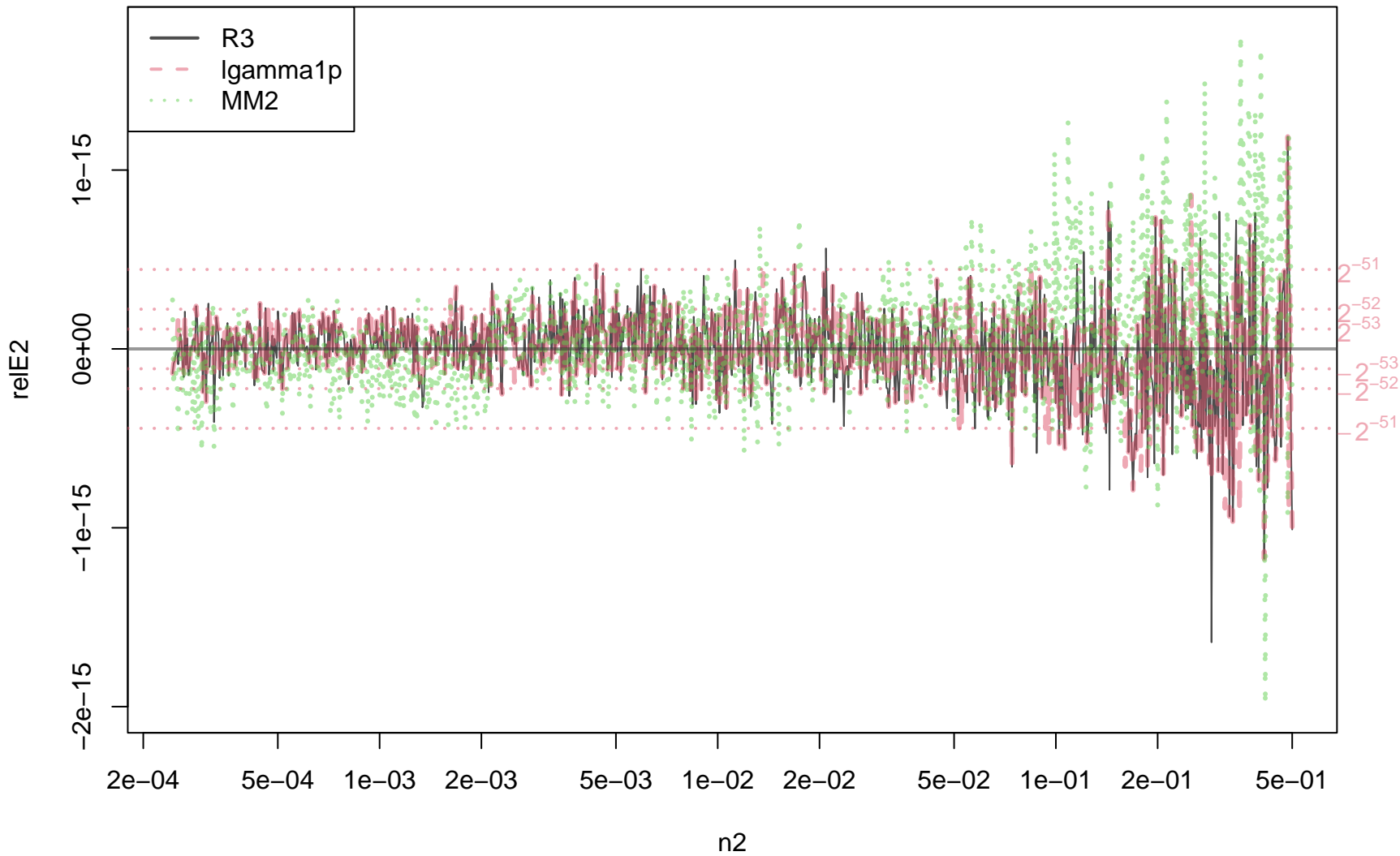
relative errors of direct (approx.) formula for stirlerr(n), small n

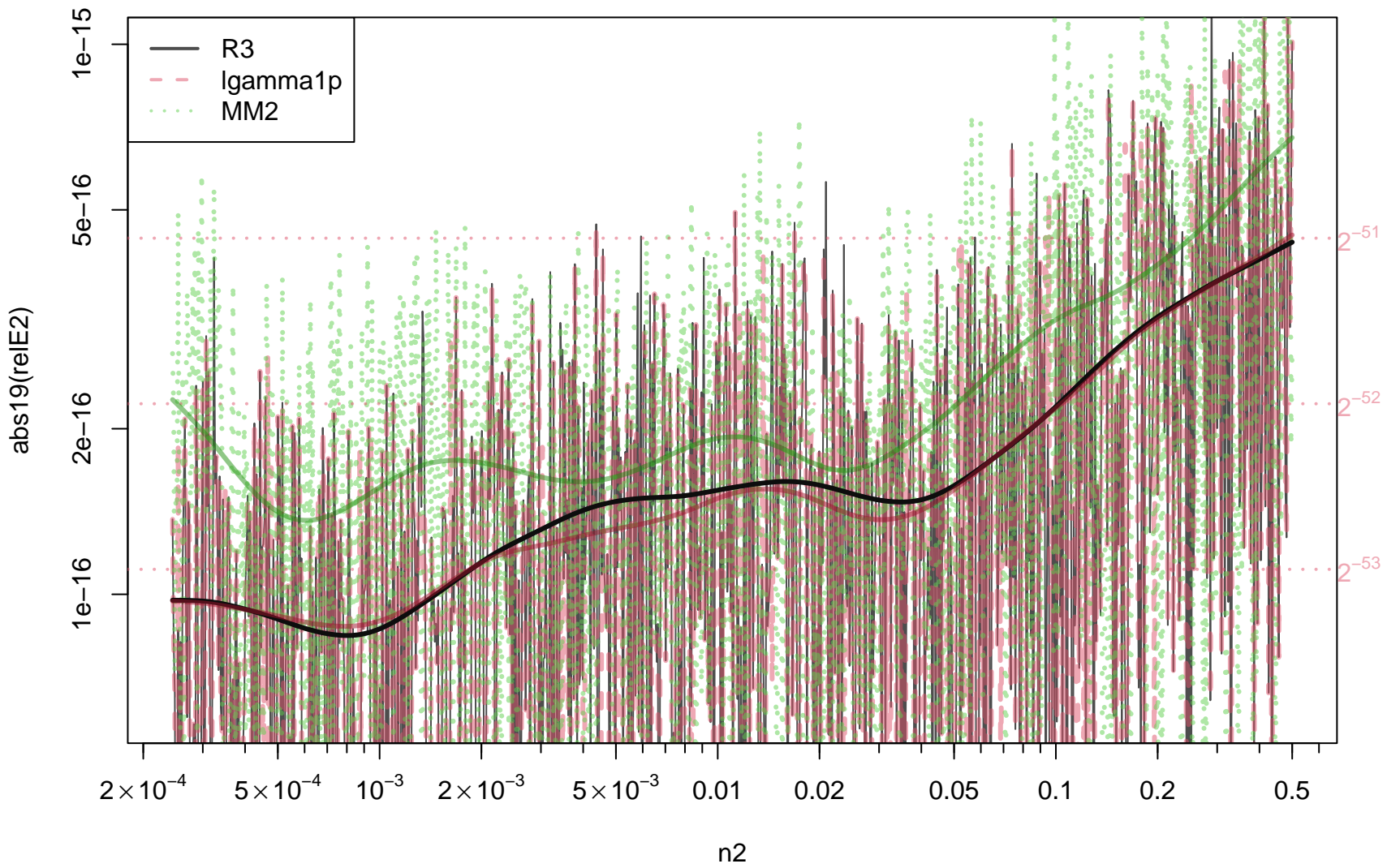


|relative errors| of direct (approx.) formula for stirlerr(n), small n



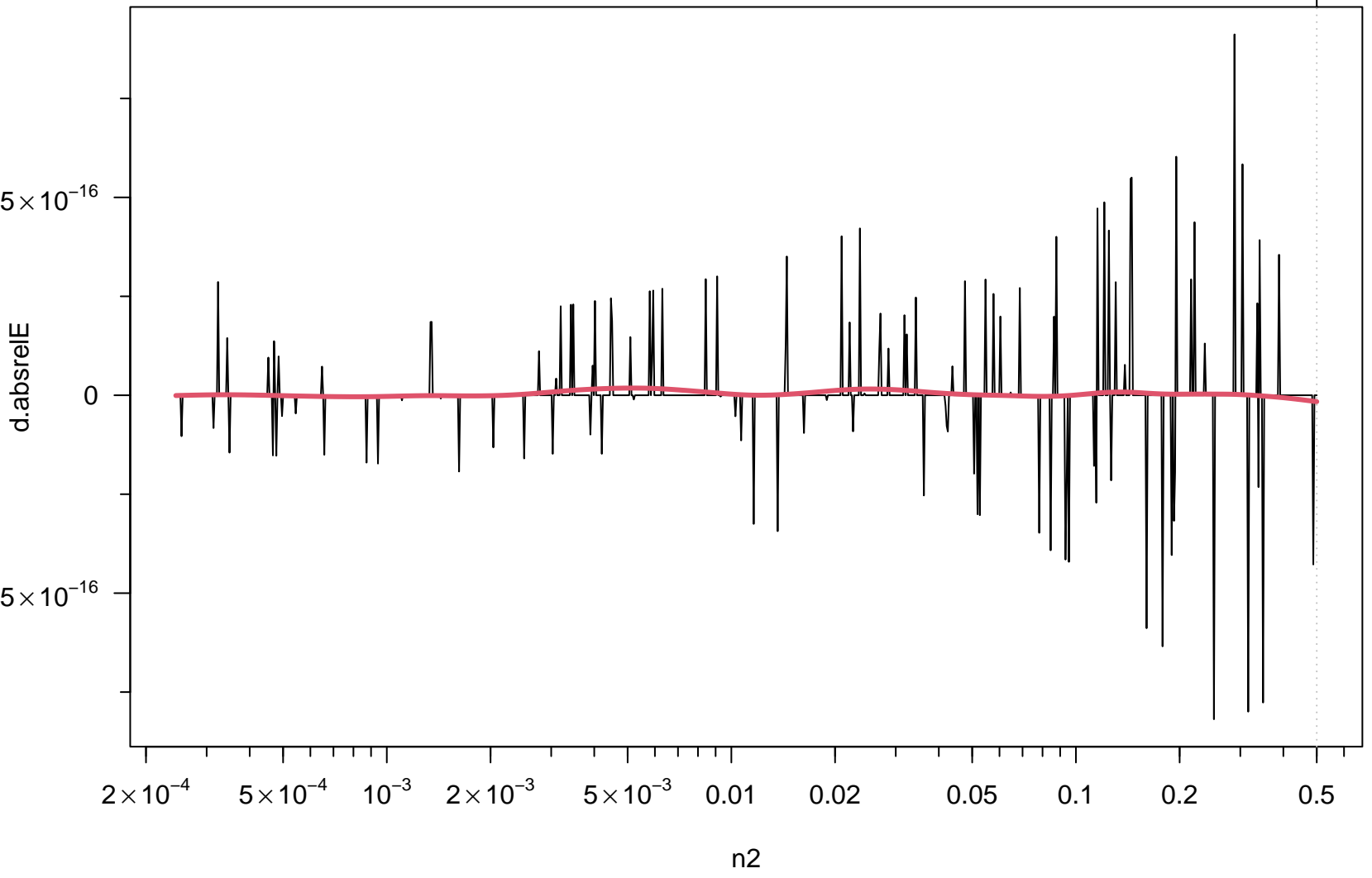




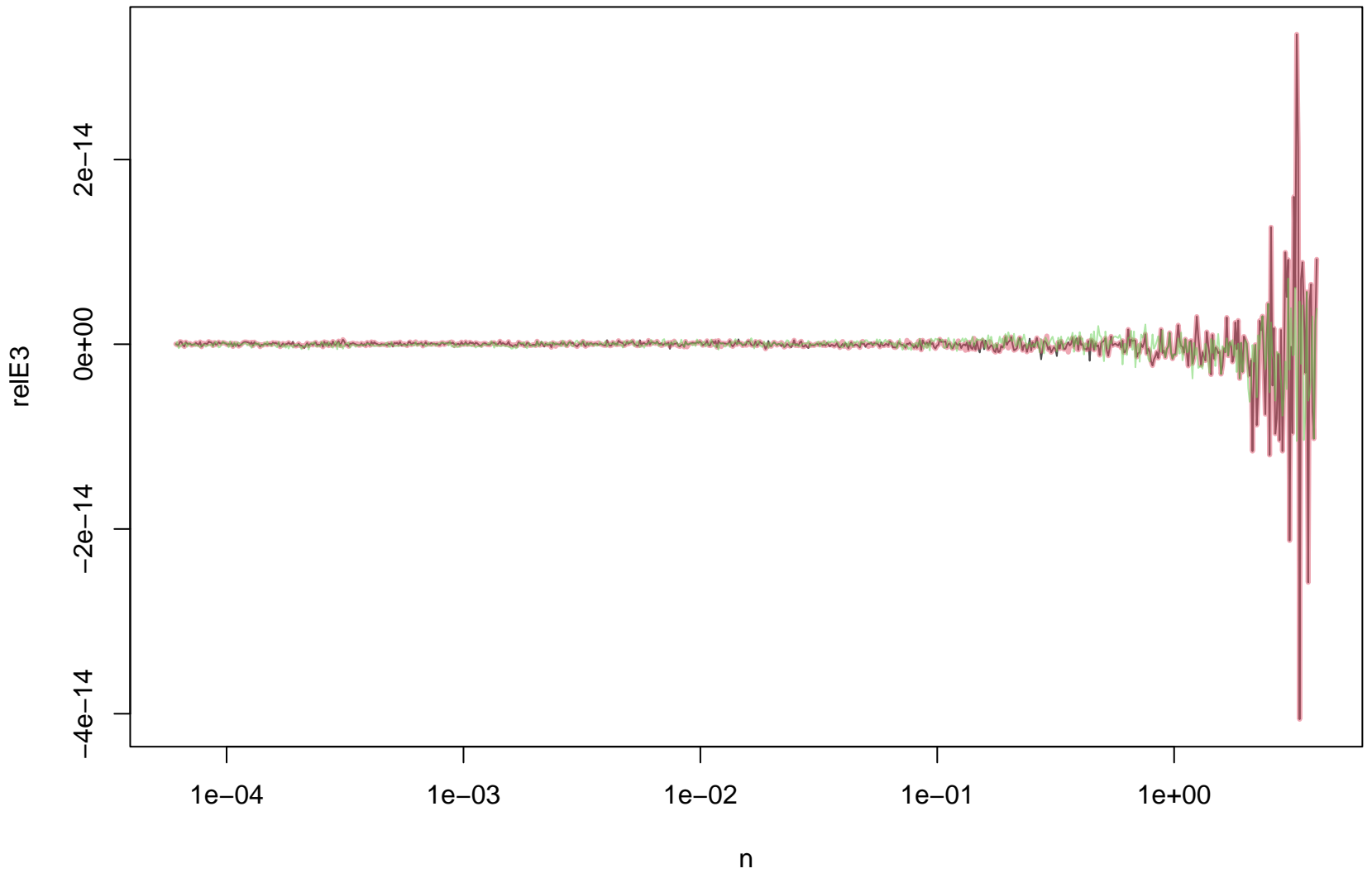


$|\text{reIE_R3}| - |\text{reIE_lgamma1p}|$

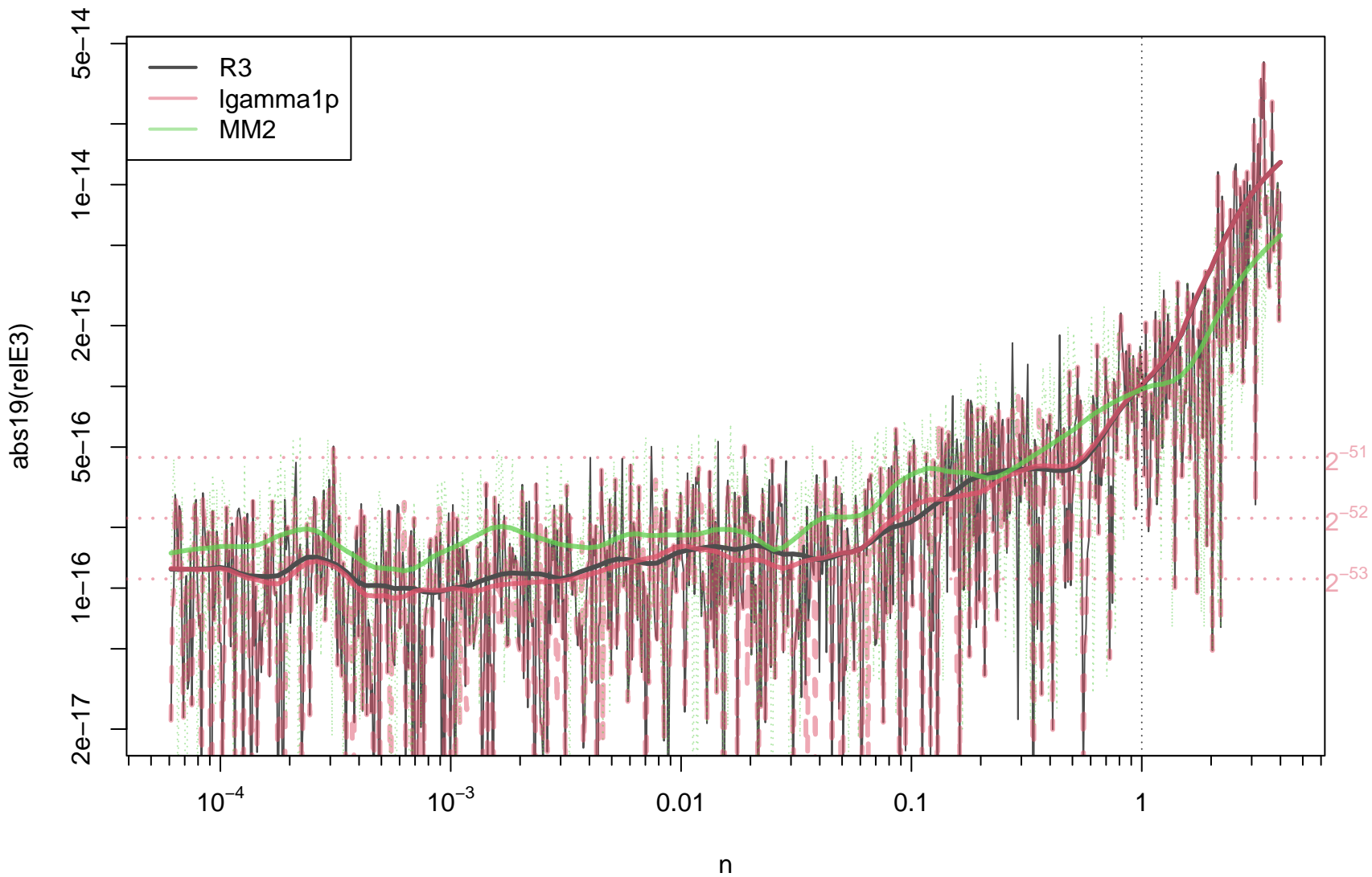
0.5



rel.lgam1(n)

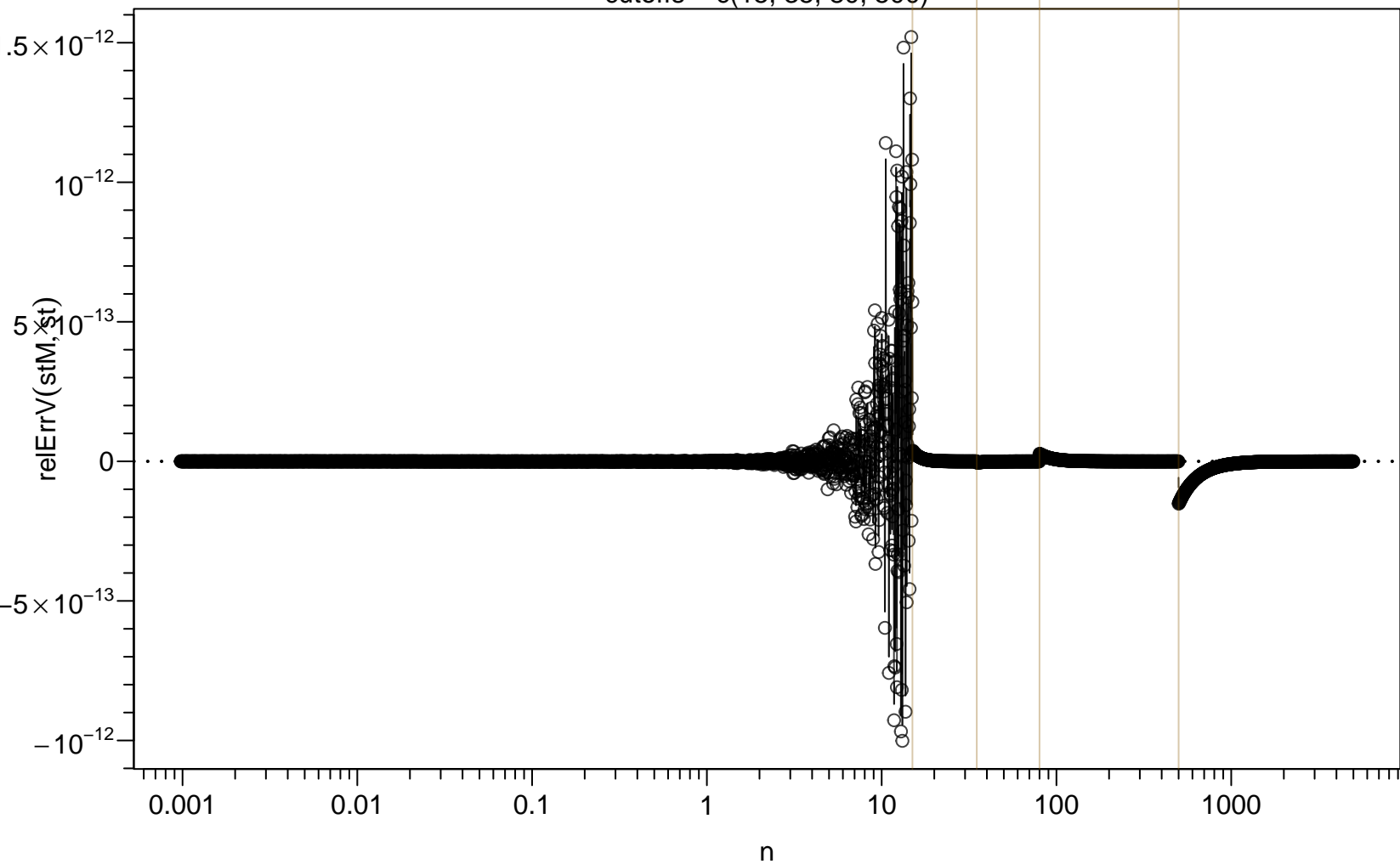


$|\text{rel.lgam1}(n)|$



stirlerr(n, cutoffs) rel.error [wrt stirlerr(Rmpfr::mpfr(n, 512))]

cutoffs = c(15, 35, 80, 500)



stirlerr(n, cutoffs) rel.error [wrt stirlerr(Rmpfr::mpfr(n, 512))]

cutoffs = c(15, 35, 80, 500)

