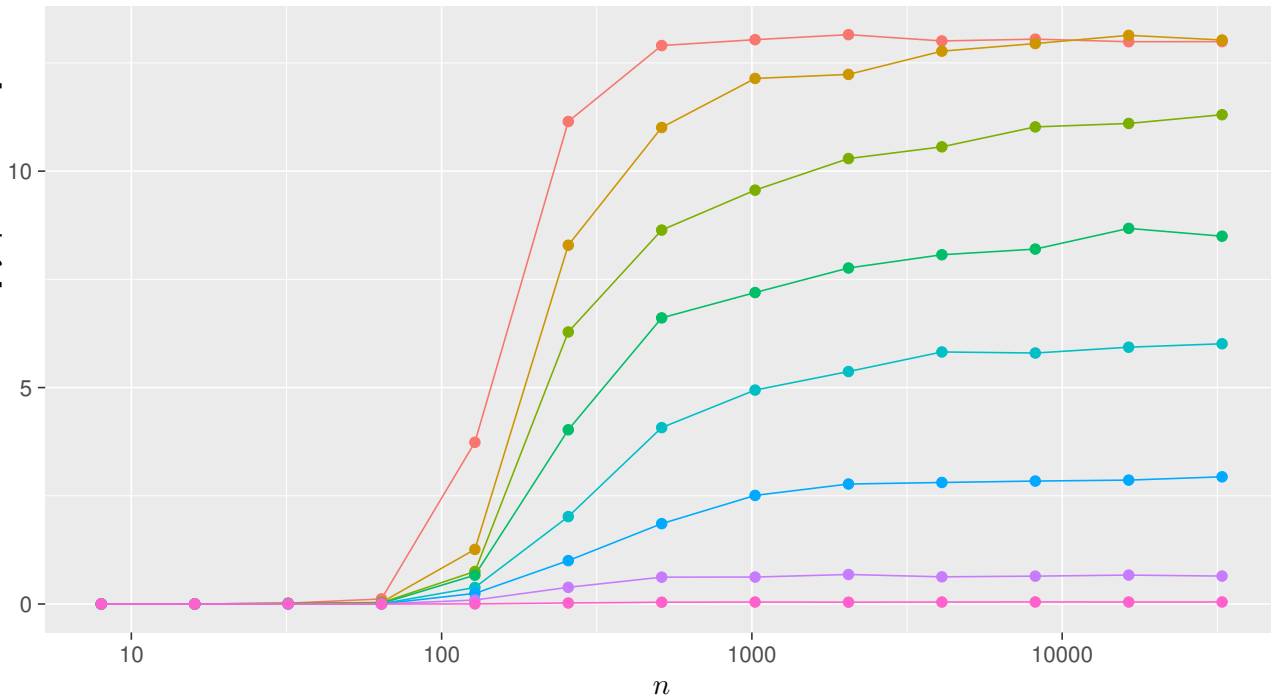$\Delta t = 2^{-5}$, degree $p = 6$