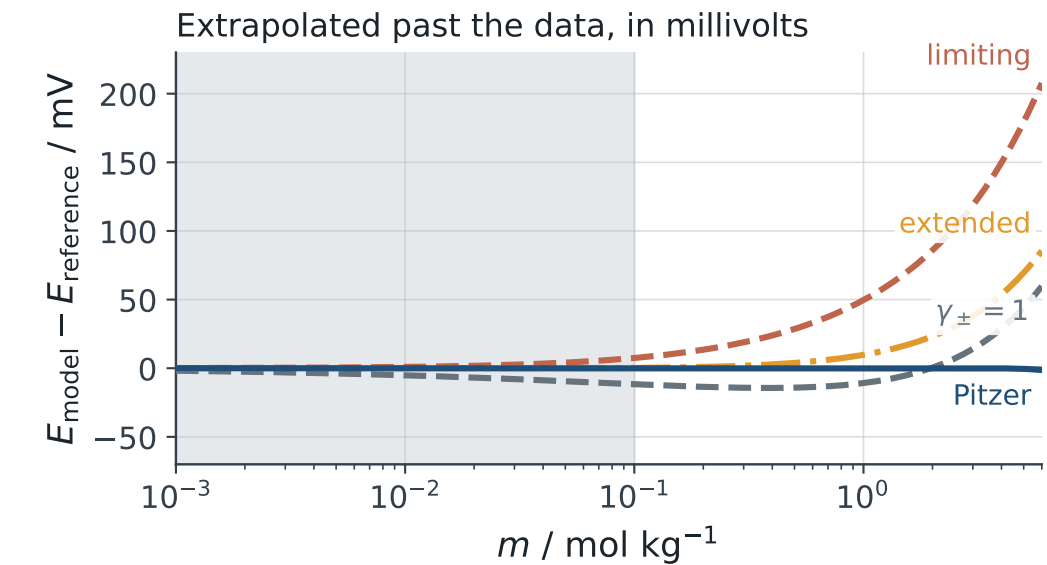
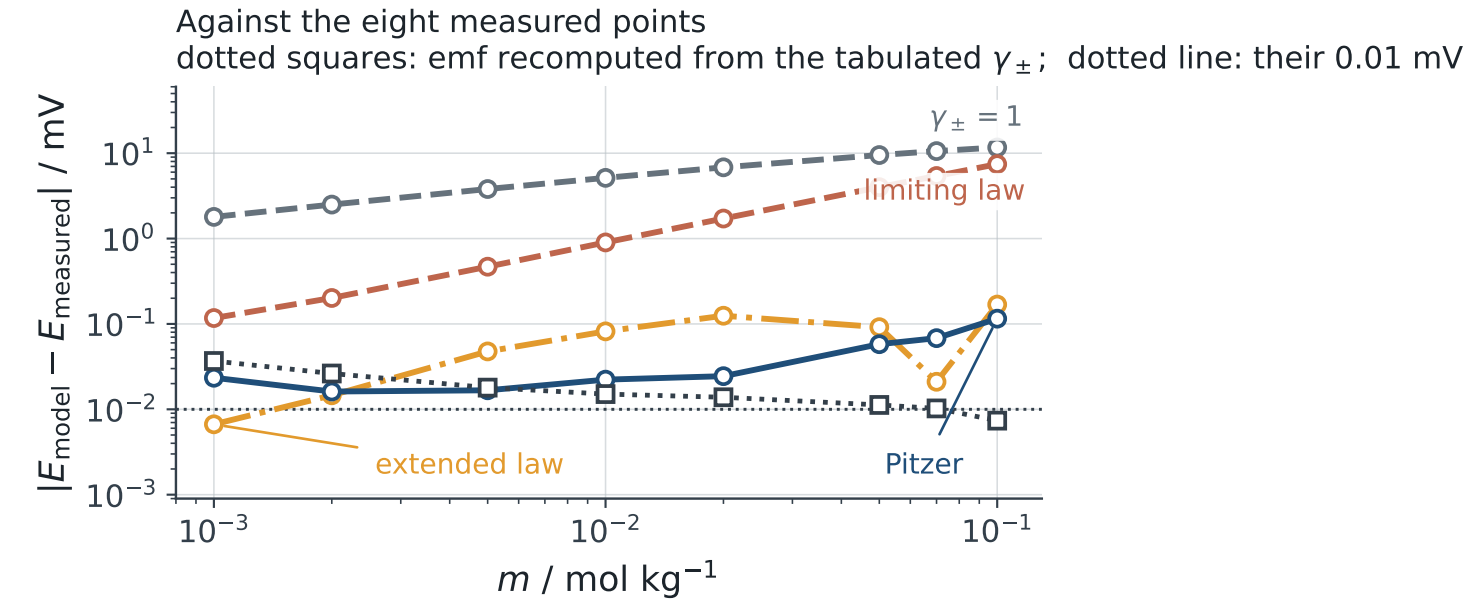
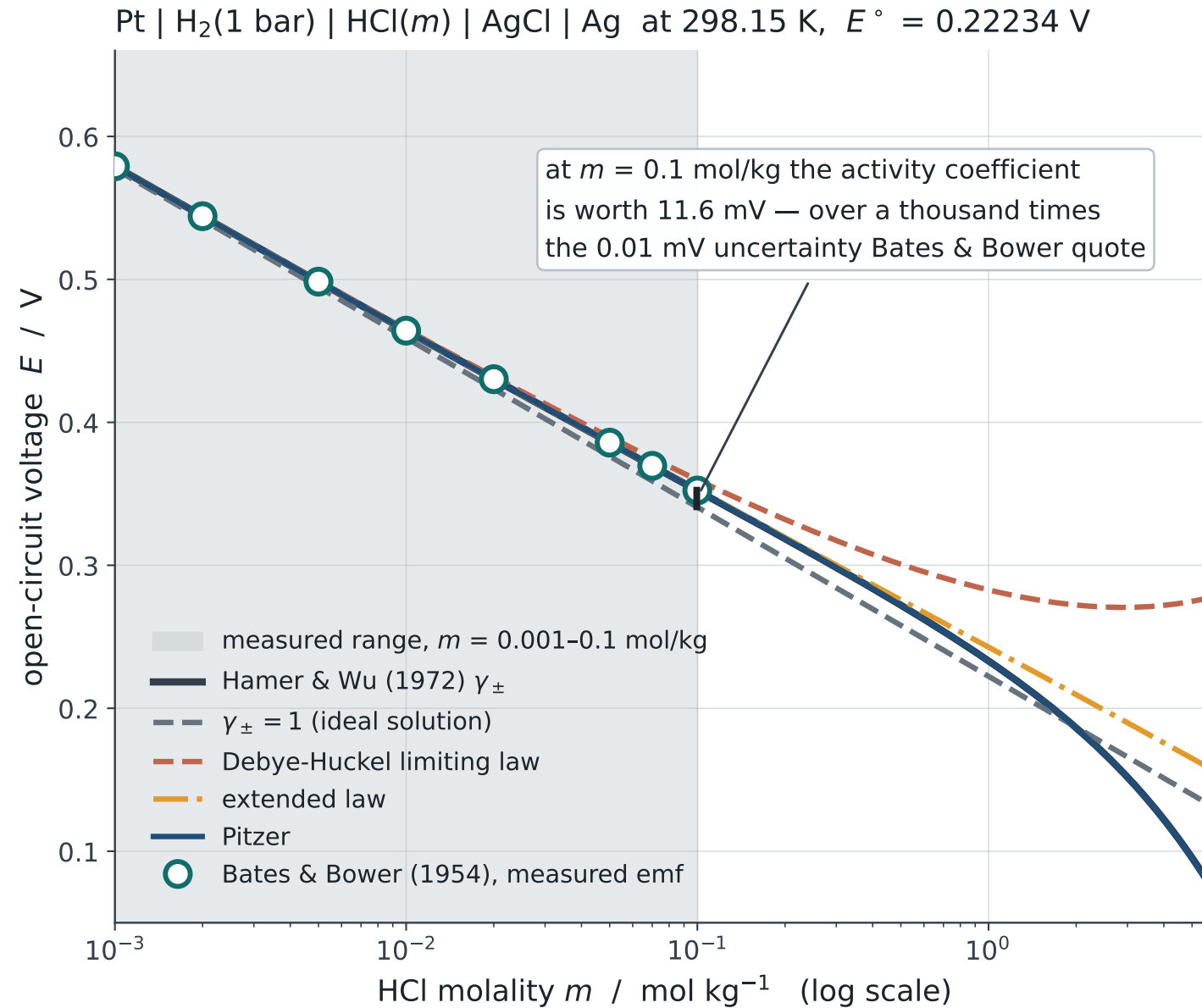


The activity coefficient is not a correction to a calculation — it is 12 mV on a voltmeter at 0.1 mol/kg, and 60 mV at 6



MEASURED, NOT ILLUSTRATIVE. E° and the eight emf values are Bates & Bower, J. Res. NBS 53, 283 (1954), Tables 2 and 3; the reference $\gamma_{\pm}$ curve is Hamer & Wu, J. Phys. Chem. Ref. Data 1, 1047 (1972), Table 4.

Pitzer parameters from PHREEQC `pitzer.dat` (USGS). The extended-law ion size $a = 5.92$ Å is fitted here to the measured $\gamma_{\pm}$ below 0.1 mol/kg. Recomputing the measured emf from the measured $\gamma_{\pm}$ through the Nernst equation closes to 0.04 mV, which is the internal consistency of the data set and the floor for every model comparison above. Beyond 0.1 mol/kg the curves are predictions with nothing to test them against, and the shaded band marks where the data end.