Second derivative of Beta Log-likelihood wrt  $\theta$ (100 samples,  $\Delta N = 3.5e-03$ ) 1.0 1.000 0.9 0.875 0.8 0.750 0.7 -0.625 0.6 -0.500  $\alpha$ 0.5 0.375 0.4 0.250 0.3 0.125 0.2 0.000 0.1 10 15 20 25 30 θ