Universal functional - Interacting system ($\lambda = 1$) Analytic Approx Numerical 0.4 $F_{arepsilon}^{\lambda=1}(\sigma,0)$, arepsilon=0.1Lower bound 0.2 $\mathcal{F}_{LL}(\sigma,0)$ 0 00.0 -0.4-0.6-0.8-1.00-0.75-0.50-0.250.25 0.50 0.75 1.00 0.00 σ