Lipson et al. (2020b): n = 122 30 -40 25 1 -50 clique tree 20 join-graph str 0 -60 factor graph 15 -1 10 -70  $E(X_{\rho} | data)$  $Var(X_{\rho} | data)$ Factored energy 5 -2 -80 0 5 5 10 5 10 15 10 15 20 15 20 20 Müller et al. (2022): n = 40-100 20 2500 -200 0 2000 -300 -20 1500 -400 -40 1000  $Var(X_{\rho} | data)$ E(X<sub>p</sub> |data) Factored energy -60 500 -500 0 -600 -80 50 50 100 150 200 10 20 30 40 10 20 30 40 50 Müller et al. (2022): n = 40, difference from clique tree estimate shown on log-modulus transformation scale 10<sup>12</sup> 10 10<sup>4</sup> 10<sup>8</sup> -2 -10 10<sup>4</sup> 10<sup>2</sup>  $-10^{2}$ 0 10 -10<sup>4</sup> -10<sup>4</sup> -10 --10<sup>8</sup> -10<sup>2</sup>  $\Delta = Var(X_{\rho} | data) - 1425.7$  $\Delta = E(X_{\rho} \mid data) - 15.7$ -10<sup>12</sup> - $\Delta$  = Factored energy -85) 50 100 150 200 10 20 30 40 10 20 0 50 0 30 40 50

Number of iterations