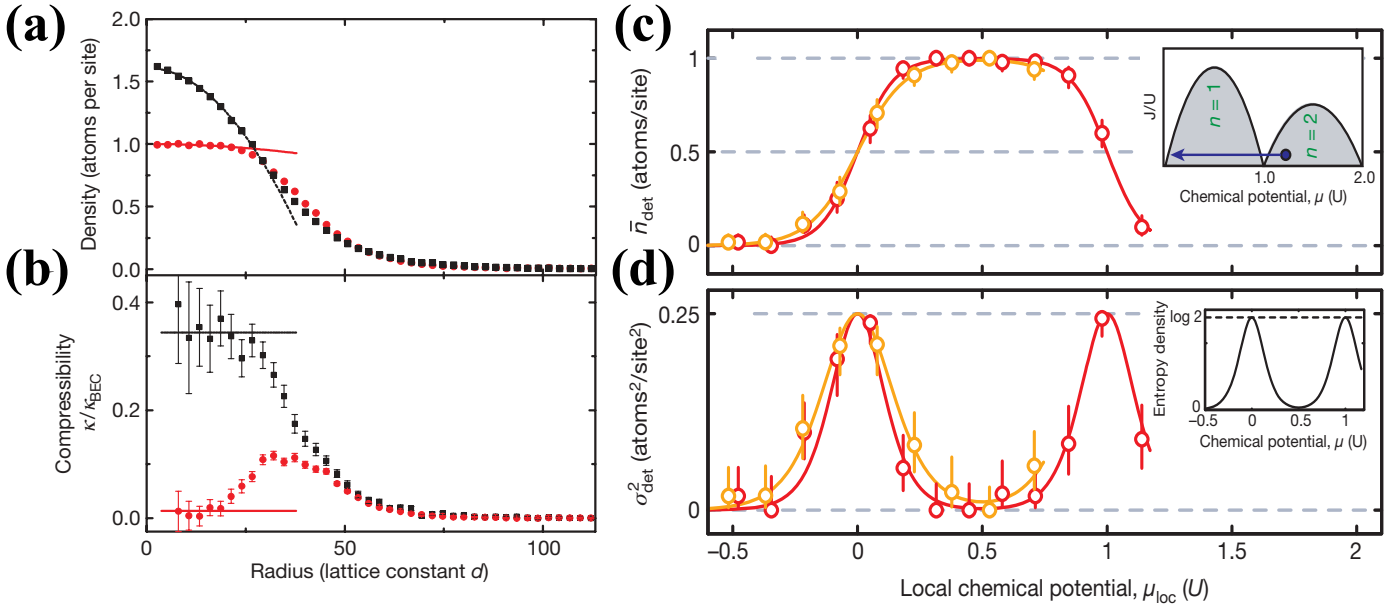
(a)
Density (atoms per site)
2.0
1.5
1.0
0.5
0.0
(b)
Compressibility
κ'/κ_{BEC}
0.4
0.2
0.0
0
50
100
Radius (lattice constant d)
(c)
$\bar{n}_{det}$ (atoms/site)
1
0.5
0
J/U
$n = 1$
$n = 2$
1.0
2.0
Chemical potential, μ (U)
(d)
σ^2_{det} (atoms^2/site^2)
0.25
0
Entropy density
log 2
0
–0.5
0
0.5
1
Chemical potential, μ (U)
–0.5
0
0.5
1
1.5
2
Local chemical potential, μ_{loc} (U)