density-guided compression

particles

particles (y-axis)
bins (x-axis)

t = 272, bins = ρ_{max}, distrib 2
t = 499, bins = ρ_{max}, distrib 1
t = 499, bins = ρ_{max}, distrib 2

power spectrum

$P_0(k)$ $(Mpc/h)^3$ (y-axis)
k (h/Mpc) (x-axis)

t = 272
t = 042

bits

bits (y-axis)
ρ (log scale) (x-axis)

t = 272, distrib 2
t = 499, distrib 1
t = 499, distrib 2

discrepancy

P_{zip} / P_{raw} (y-axis)
k (x-axis)

threshold
t = 272, bins = ρ_{max}, ratio = 6.42
t = 499, bins = ρ_{max}, ratio = 7.42
t = 499, bins = ρ_{max}, ratio = 6.43