$N_2$  (6-31g, 10e, 16o) R: 2.4 Å R: 1.2 Å Energy error (Hartree)  $3 \times 10^{-3}$   $5 \times 10^{-3}$ Energy error (Hartree) 10-2 1000 1000 800 800 SCI subspace SCI subspace 600 600 400 400 200 200 0 0 LUCJ random LUCJ truncated LUCJ compressed