R: 1.2 Å R: 2.4 Å  $10^2$ Energy error (Hartree) Energy error (Hartree)  $10^{-1}$  $10^{1}$ 10<sup>0</sup> 10-2  $10^{-1}$  $10^{-2}$ 10<sup>-3</sup> 4000 4000 3000 3000 SCI subspace SCI subspace 2000 2000 1000 1000

LUCJ truncated

LUCJ random

LUCJ compressed

 $N_2/cc$ -PVDZ (10e, 26o)