N<sub>2</sub> (6-31g, 10e, 16o) R=1.2 Å / all-to-all R=1.2 Å / heavy-hexR=2.4 Å / heavy-hexR=2.4 Å / all-to-all(Hartree) Energy error (Hartree) error (Hartree)  $10^{-1}$  $10^{-2}$ error  $10^{-2}$  $10^{-2}$ Energy Energy Energy 4 5 6 7 8 9 10 8 9 10 4 5 6 7 5 6 7 8 9 10 5 6 7 8 9 10 Repetitions Repetitions Repetitions Repetitions 1000 1000 1500 subspace SCI subspace subspace 800 750 750 600 1000 500 500 SCI SCI 400 250 500 250 200

2 3 4 5 6 7 8 9 10

factor 2

Repetitions

factor 1.5

5 6 7 8 9 10

Repetitions

factor 2.5

1 2 3 4 5 6 7 8 9 10

Repetitions

factor 0.5

factor None

4 5 6 7 8 9 10

LUCJ-full

Repetitions