N_2 (6-31g, 10e, 16o) R=1.2 Å / all-to-all R=1.2 Å / heavy-hex R=2.4 Å / heavy-hex R=2.4 Å / all-to-all Energy error (Hartree) 10^{0} 10^{0} 10^{-1} 10^{-1} 10^{-1} 10^{-2} 10-2 Energy 6 Energy 10^{-2} 9 10 6 8 8 9 10 Repetitions Repetitions Repetitions Repetitions O 10⁻² Operator loss Operator loss 10^{-1} 10^{-1} 10^{-3} 10^{-2} 10^{-2} 10^{-3} 10^{-4} 6 5 6 7 8 9 10 5 6 7 8 5 6 7 8 4 4 Repetitions Repetitions Repetitions Repetitions

- UCCSD-compressed t2 - LUCJ-truncated - LUCJ-compressed

--- LUCJ-compressed-1stg

UCCSD

--- LUCJ-full