CCSD initial parameters n2 6-31g (10e, 16o) R=1.0 Å all-to-all square Energy error (Hartree) Energy error (Hartree)  $10^{-2}$ 18 20 12 14 16 10 12 14 16 18 20 6 8 Repetitions Repetitions 0.100 0.100 **UCCSD** init o.075 dnared 0.050 sdnared 0.075 LUCJ full (110 reps) LUCJ truncated LUCJ Compressed-t2 truncated ud 9.025 uids 0.025 **---** LUCJ Compressed-t2 multi-stage 0.000 0.000 12 14 16 18 20 10 12 14 16 18 20 8 Repetitions Repetitions 0.02 0.010 0.005 <sup>J</sup> <u>ss</u> 0.01 0.000 -0.00 12 16 18 20 10 12 14 16 18 20 Repetitions Repetitions