N₂/6-31G (10e, 16o) -107.8 FCI **CCSD** -108.0CISD **UCCSD** Energy (Hartree) -108.2 UCJ -108.4-108.6-108.8-109.0-109.21.00 1.50 1.75 2.00 2.25 2.50 1.25 2.75 Bond length (Å) Energy erro (Hartree) 10^{-1} 10^{-2}

1.50

1.75

Bond length (Å)

2.00

2.25

2.50

2.75

1.00

1.25