Energy error (Hartree) Energy error (Hartree Repetitions Repetitions SCI subspace SCI subspace 4000 4000 2000 2000 9 10 9 10 Repetitions Repetitions Operator loss Operator loss  $10^{-1}$ 10  $10^{-2}$  $10^{-2}$ 

9 10

10

8 9

2Fe-2S (30e, 20o)

 $10^{0}$ 

 $10^{-3}$ 

LUCJ-truncated

2

2 3 heavy-hex

8 9 10

8 9 10

LUCJ-compressed

Repetitions

all-to-all

Repetitions

LUCJ-full

10<sup>0</sup>

 $10^{-3}$ 

Rand bitstr