FSG time evolution vs. exact for 6 sites (order [1, 2, 4 10<sup>0</sup>  $10^{-2}$ Fit:  $f(x) = a \cdot x^b$ ; a=0.86, b=1.01 Fit:  $f(x) = a \cdot x^b$ ; a=0.38, b=2.09 Fit:  $f(x) = a \cdot x^b$ ; a=0.03, b=4.75  $10^{0}$ 

Frobenius norm

Duration of Trotter time steps