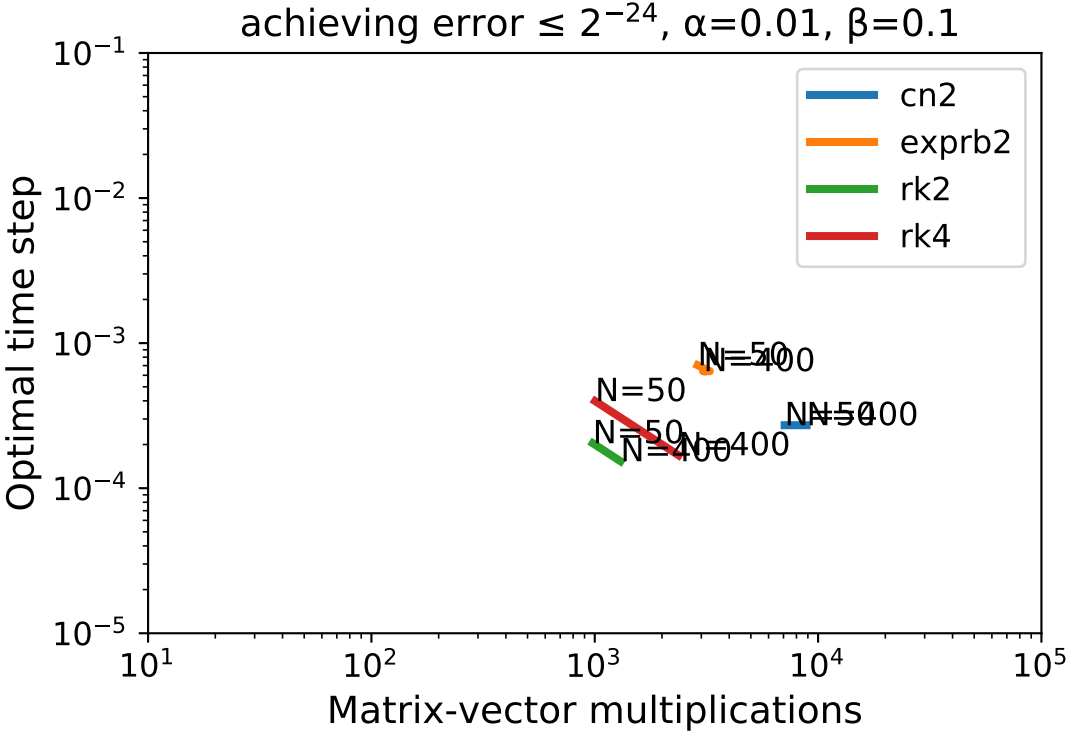
Optimal time step
achieving error ≤ 2^{-24}, α=0.01, β=0.1
cn2
exprb2
rk2
rk4
N=50
N=400
N=50
N=400
N=50
N=400
N=50
N=400
Optimal time step
Matrix-vector multiplications
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{1}
10^{2}
10^{3}
10^{4}
10^{5}