Runtime at each wavenumber k, accuracy = 10^0 1 SV requested 2 SV requested 125 125 - 1.0 1.0 100 100 0.8 0.8 runtime [ms] 75 75 0.6 0.6 direct Arnoldi 50 50 0.40.425 0.2 25 0.20 0.0 0 0.00 2 4 6 8 10 0 2 4 6 8 10 4 SV requested 8 SV requested - 1.0 1.0 100 100 0.8 0.8 runtime [ms] 75 75 0.6 0.6 50 50 0.4 0.425 0.2 0.2 25 0 0.0 0 0.06 6 2 8 2 4 0 4 10 0 8 10 16 SV requested 32 SV requested 125 1.0 120 - 1.0 100 0.8 100 0.8 runtime [ms] 75 0.6 80 0.6 60 0.450 0.440 0.2 0.2 25 20 0.0 0.0 6 2 2 6 0 4 8 10 4 8 10 0 64 SV requested 100 SV requested 120 1.0 120 1.0 0.8 0.8 100 100 runtime [ms] 0.6 0.6 80 80 0.4 0.4 60 60 0.2 0.2 0.0 0.0 2 4 6 8 10 2 4 6 8 0 0 10

wavenumber k

wavenumber k