1.010 1.008 1.006 $v_perturb = 0$ v perturb = 0.011.002 1.000 2500 5000 7500 10000 12500 15000 17500 20000 0 time 0.020 Nperturbation — Nquantum 0.015 0.010 0.005 0.000 10000 12500 15000 17500 20000 0 2500 5000 7500

n for 2D HO initial state ψ_{10} + $i\psi_{01}$ w/ vanishing Gaussian hill potentia