Binary Input Sequence

A — Std. Dev. vs time step, with legend y, x

B — a vs time step

C — σ_x vs σ_y, with legend First 100 time steps, Last 100 time steps

D — $\text{Im}(\lambda)$ vs $\text{Re}(\lambda)$, with legend Eigenvalues at $t=0$, Eigenvalues at $t=T$