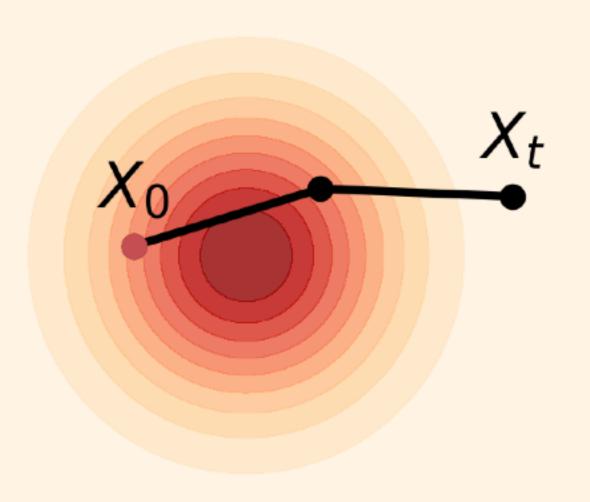
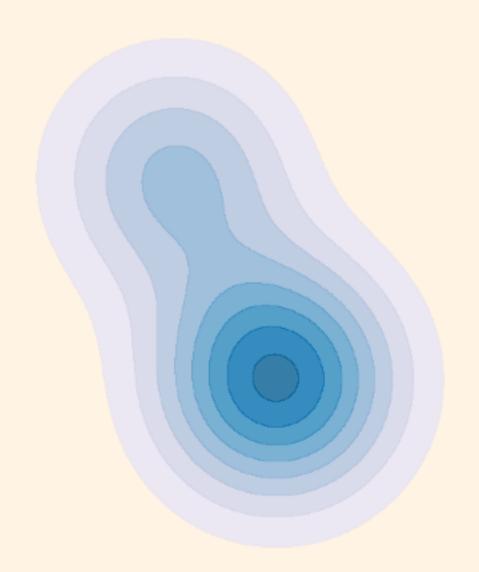
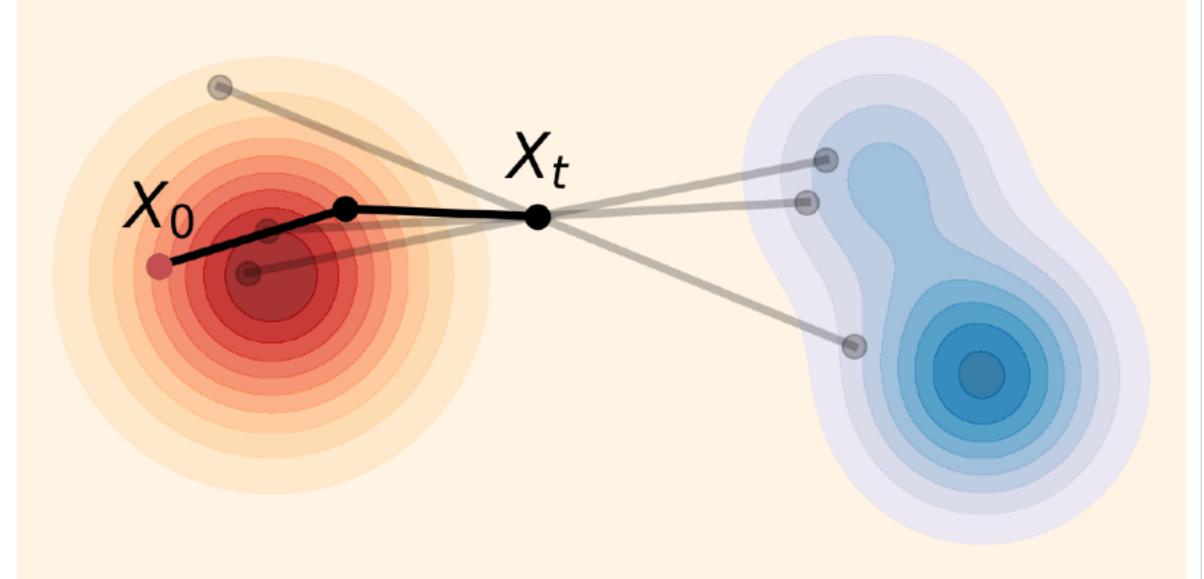
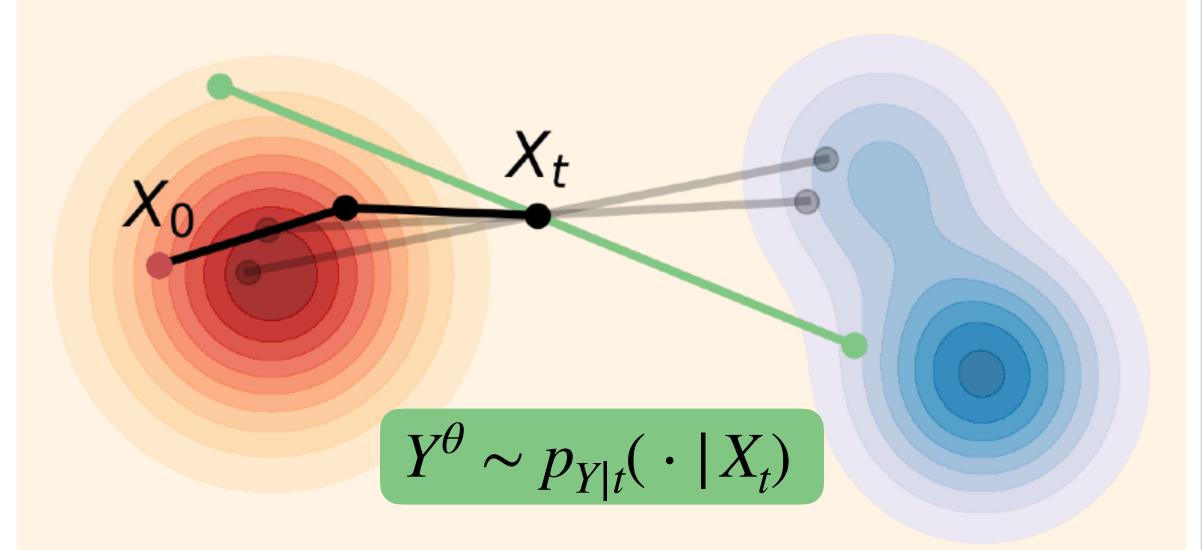
DTM vs. FM

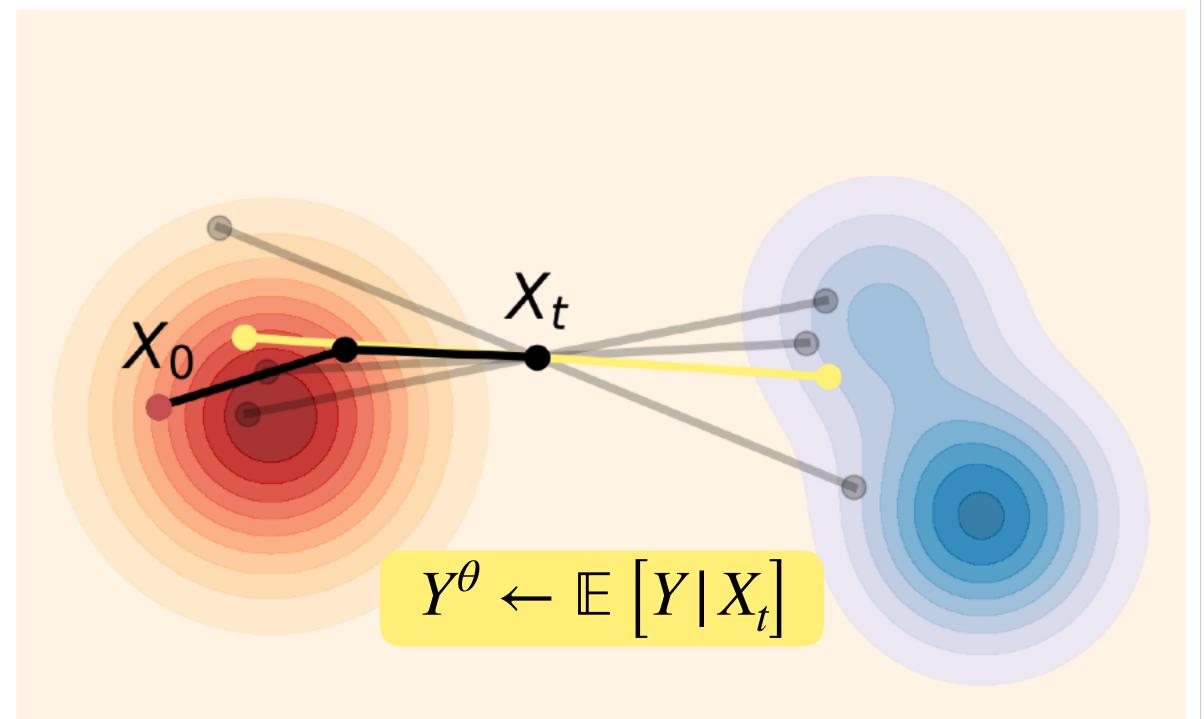






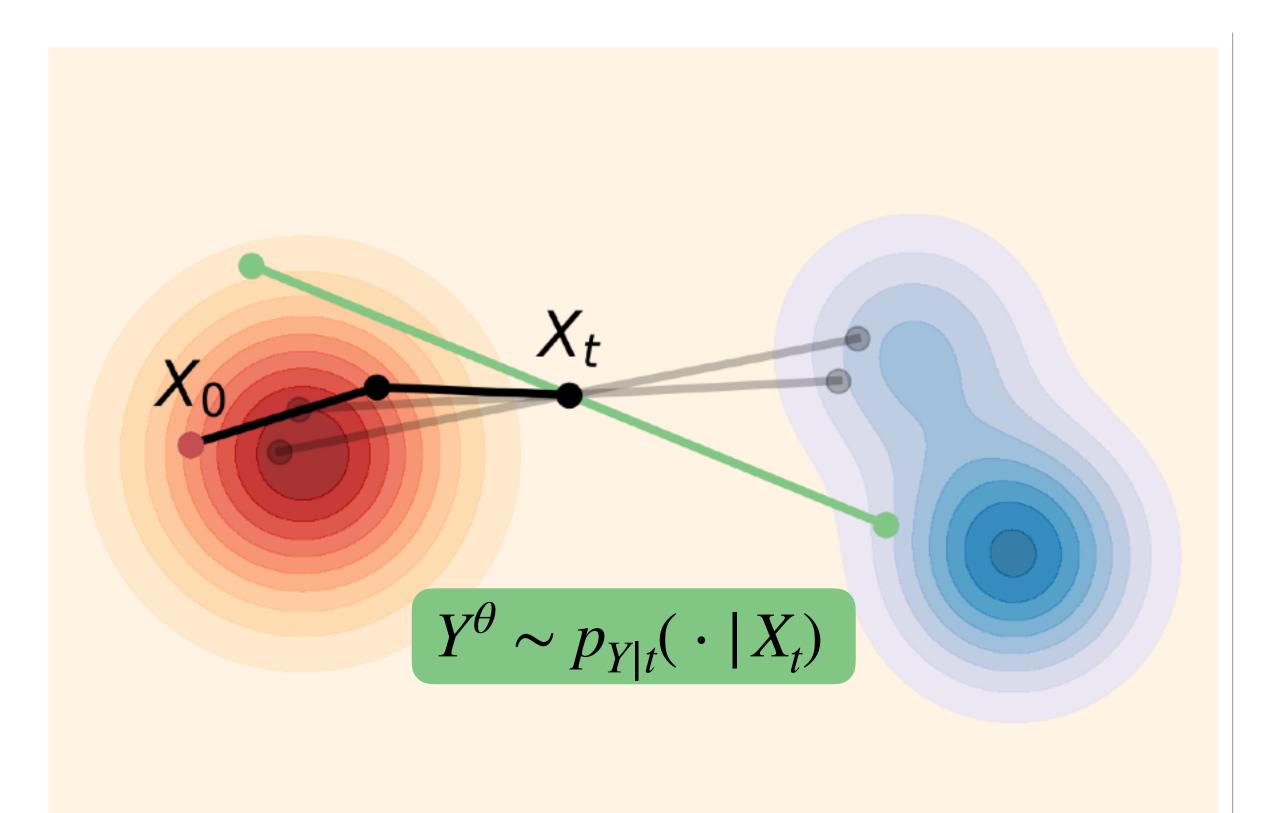


FM

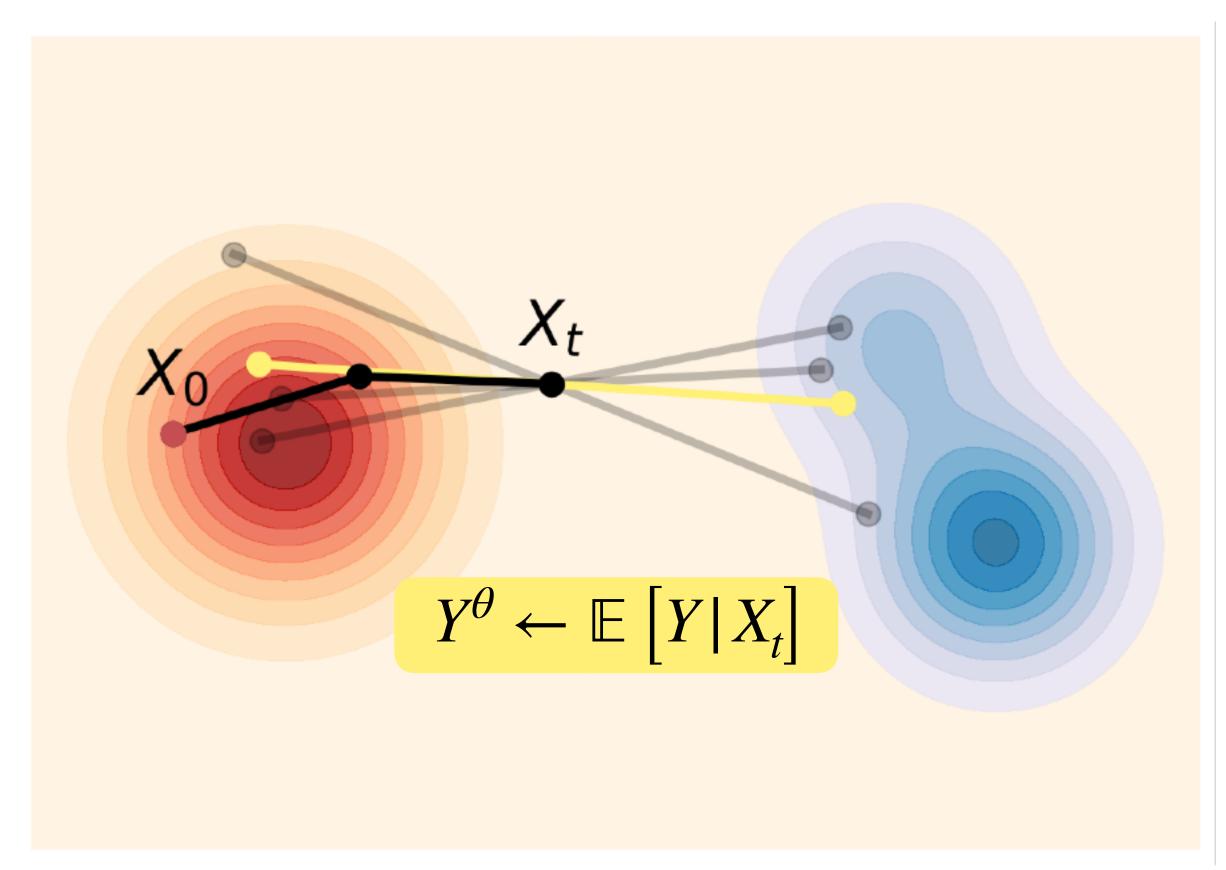


DTM vs. FM

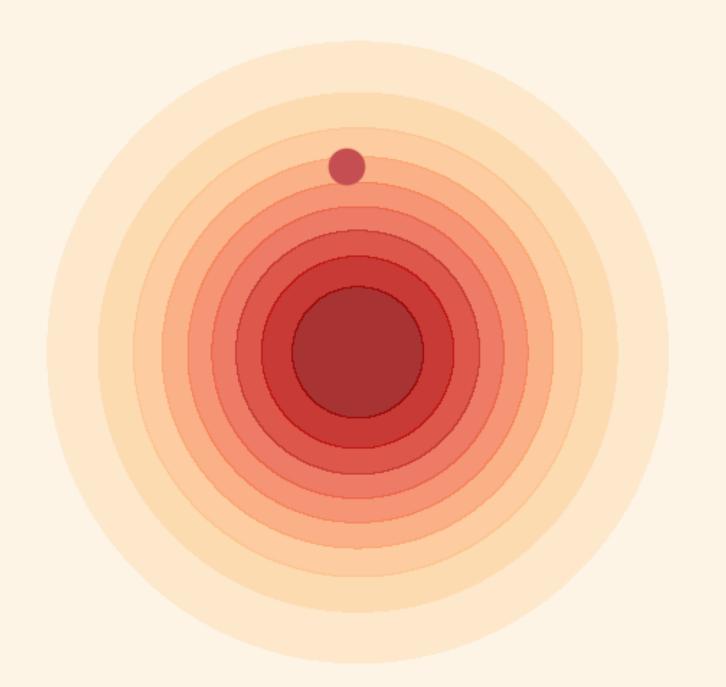
DTM



FM

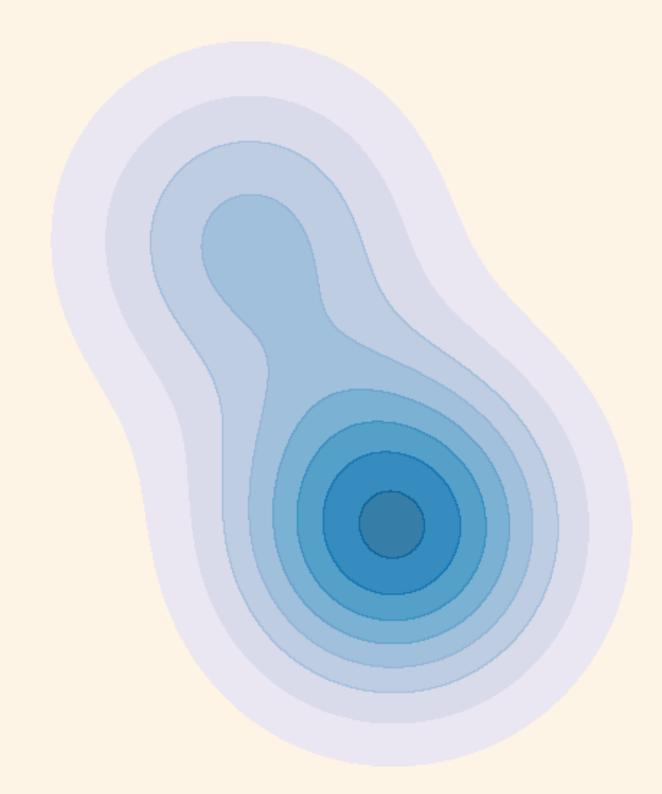


DTM vs. FM





— FM



Theorem 1: (informal) As the number of steps increases, $T \to \infty$, DTM converges to Euler step FM. Given a state $X_t = x_t$,

$$X_{t+k} \approx x_t + \frac{k}{T} \mathbb{E}\left[X_T - X_0 \mid X_t = x_t\right], \quad \text{as } k/T \to 0, \ k \to \infty.$$