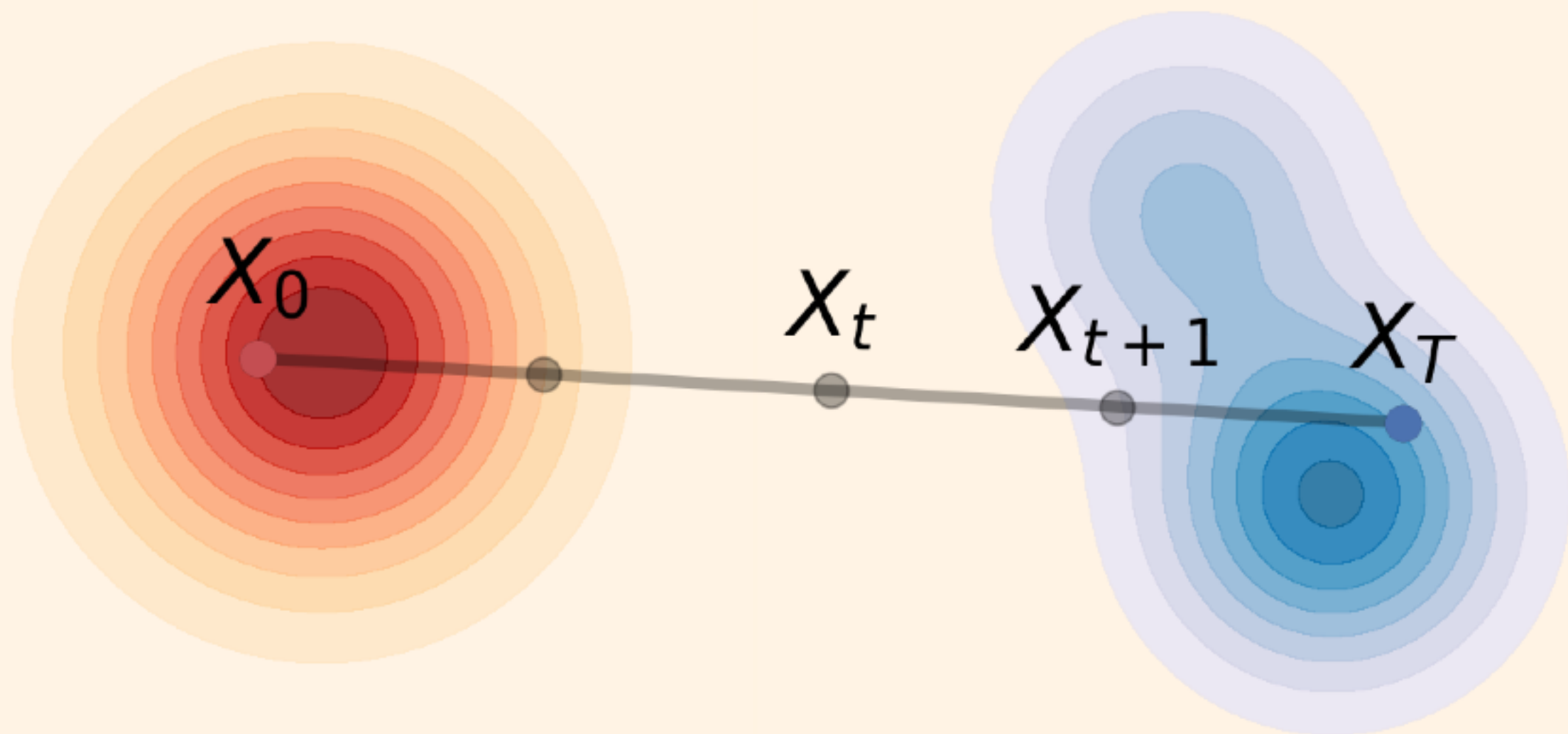


Parameterization

We find a map $Y, X_t \mapsto X_{t+1}$ and train a model $p_{Y|t}^\theta(Y|X_t)$:



Noise prediction: $Y \equiv X_0$.















$$X_t - Y$$

$$X_t - Y$$

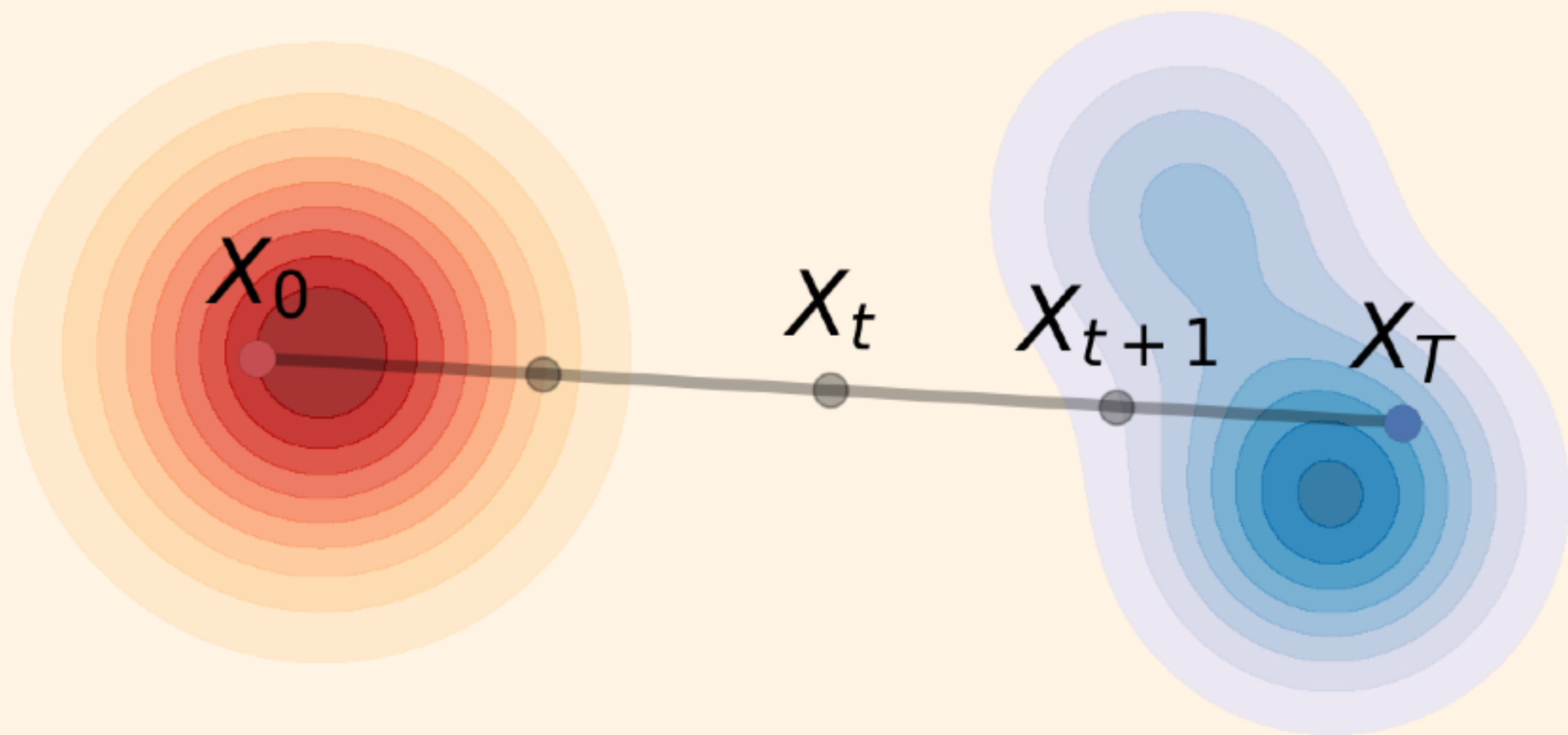
$$t$$

$$X_{t+1} = X_t + \frac{X_t - Y}{t}$$





Difference prediction: $Y \equiv X_T - X_0$.









V

Y



T



$$X_{t+1} = X_t + \frac{Y}{T}$$



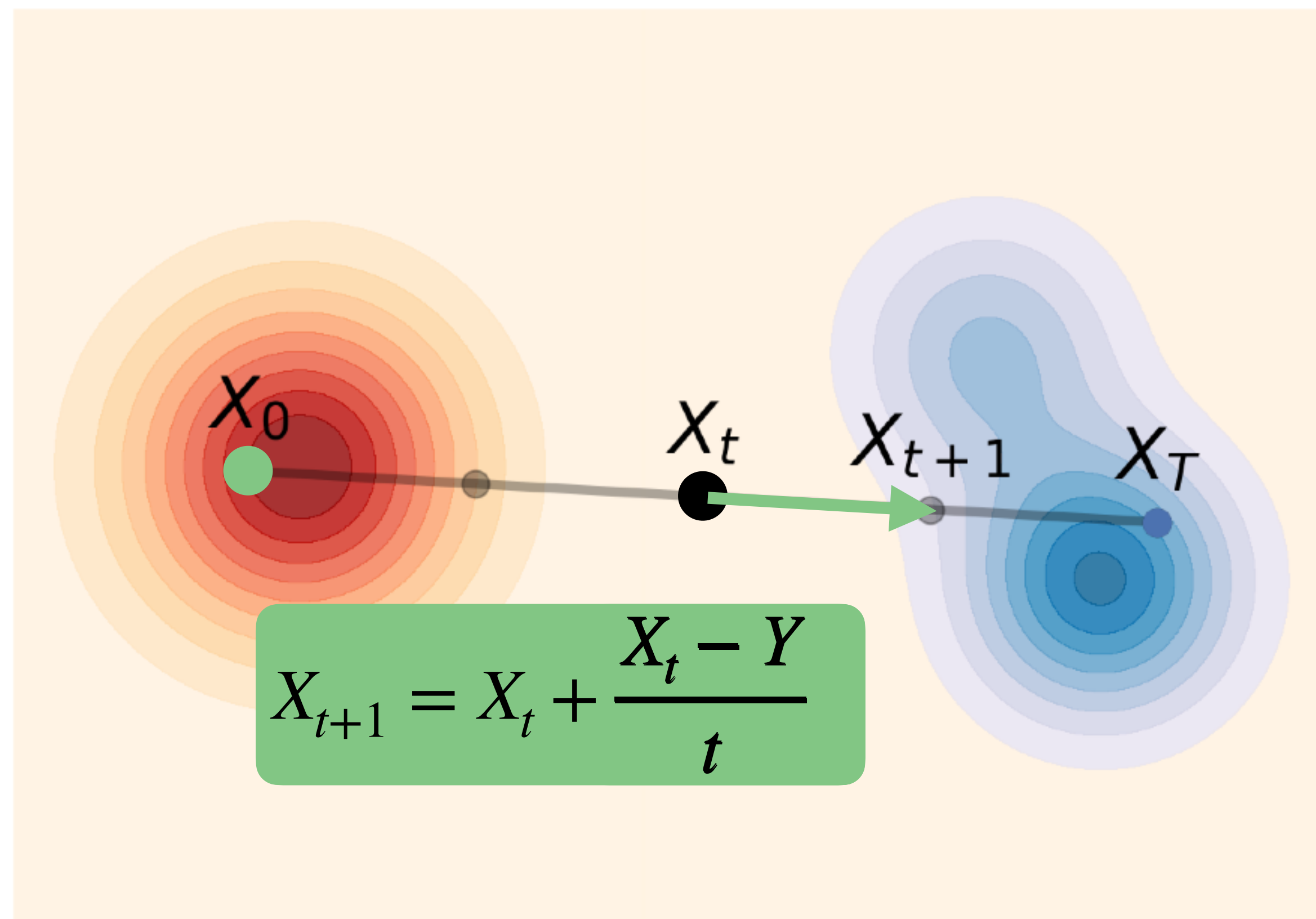




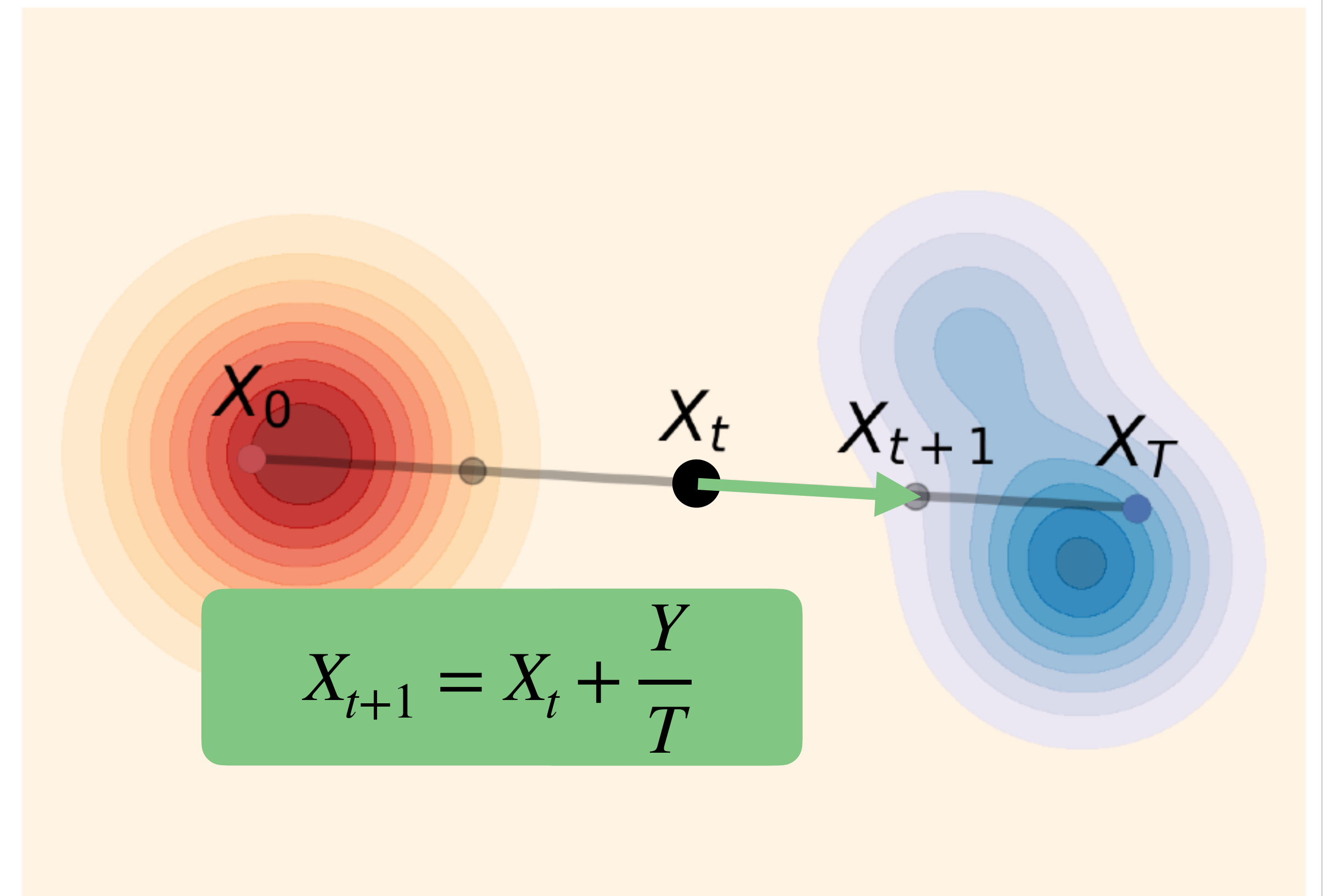
Parametrization

We find a map $Y, X_t \mapsto X_{t+1}$ and train a model $p_{Y|t}^\theta(Y|X_t)$:

Noise prediction: $Y = X_0$.



Difference prediction: $Y = X_T - X_0$.



Modeling

$p_{Y|t}^{\theta}(Y|X_t)$ is naturally modeled with a Flow Matching model $u_s^{\theta}(Y_s|X_t)$.