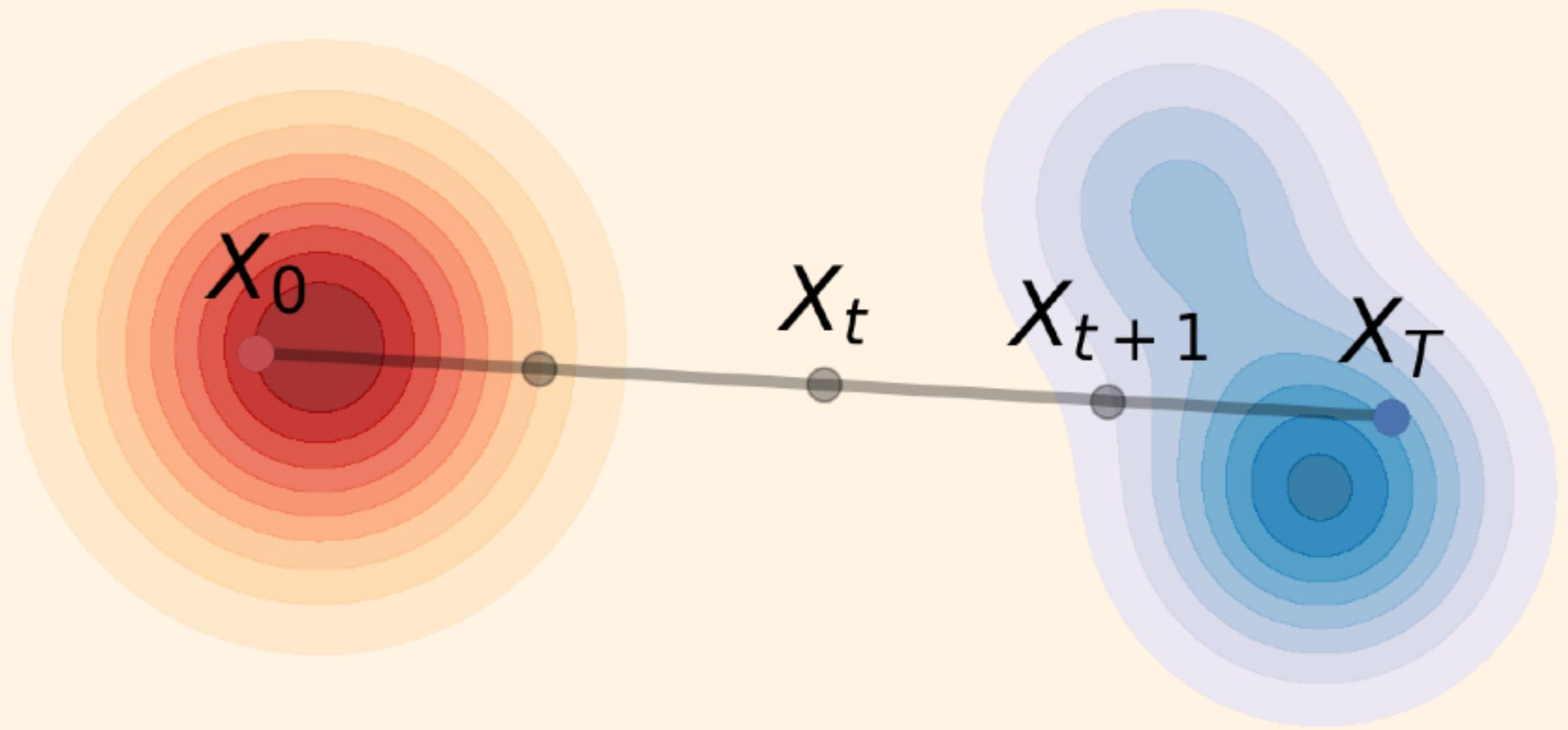


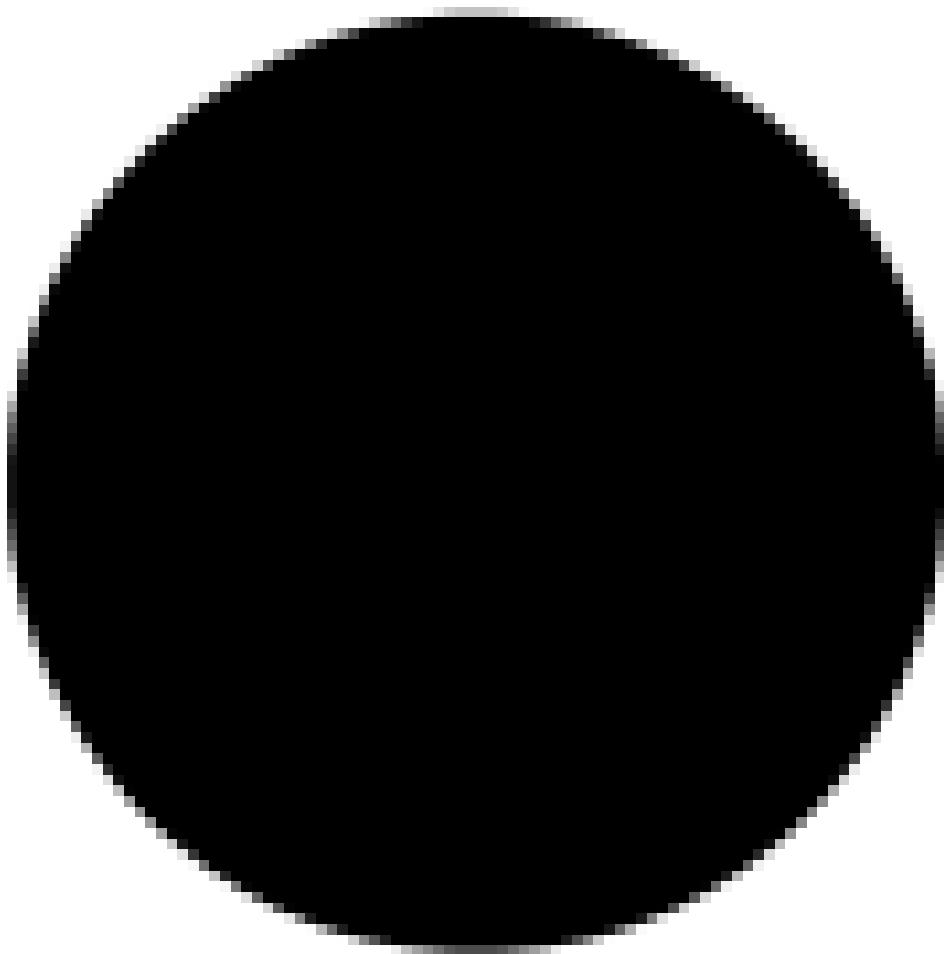
partizante

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



Noise prediction: Yes





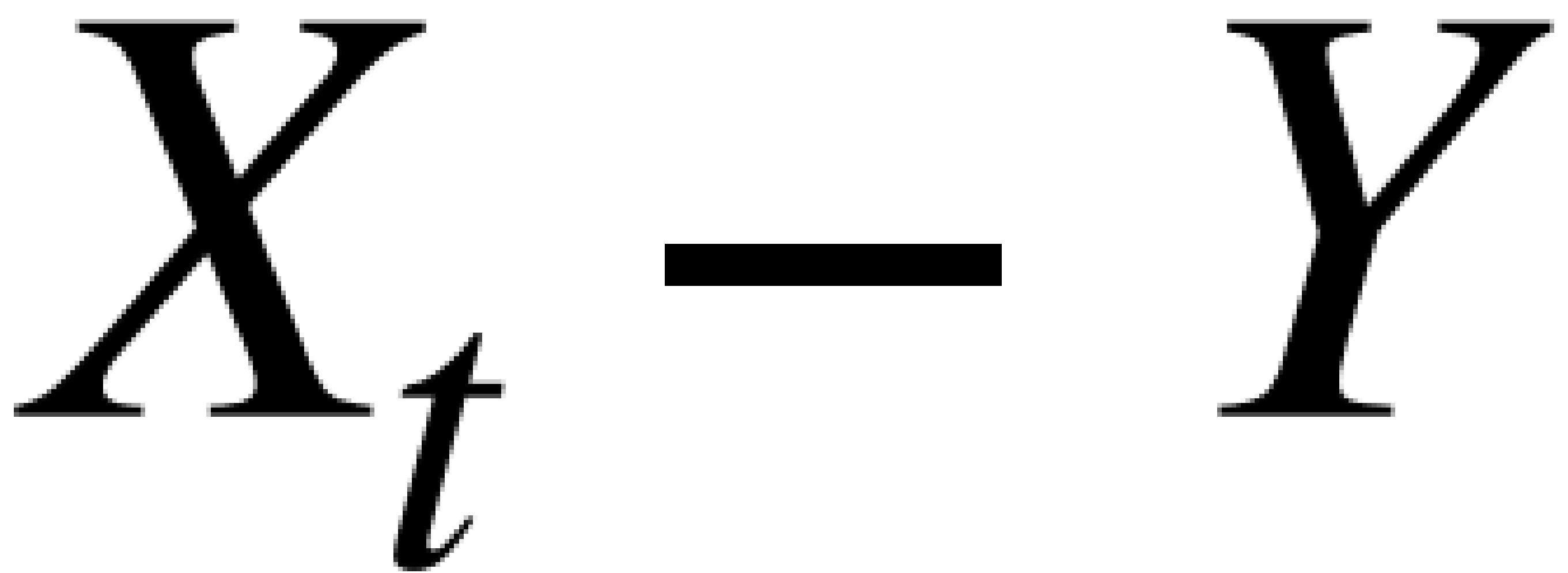












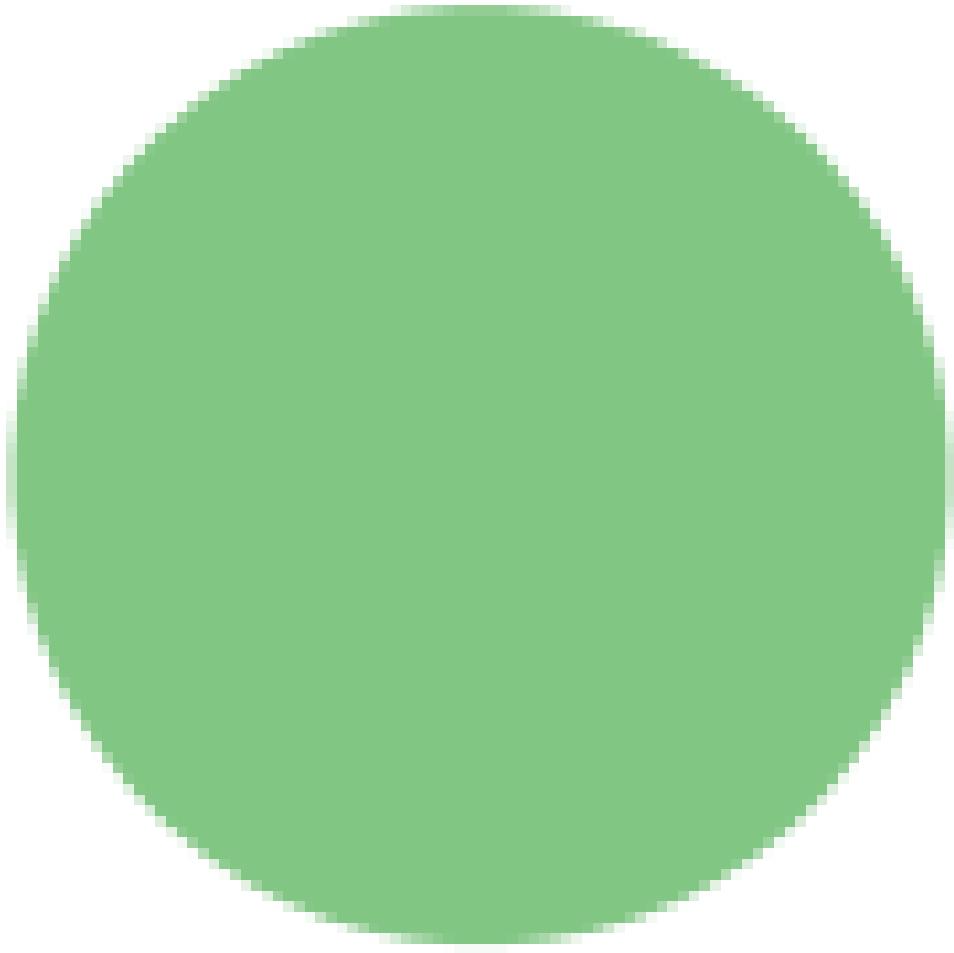
$X_t - Y$

t

$$X_{t+1} =$$

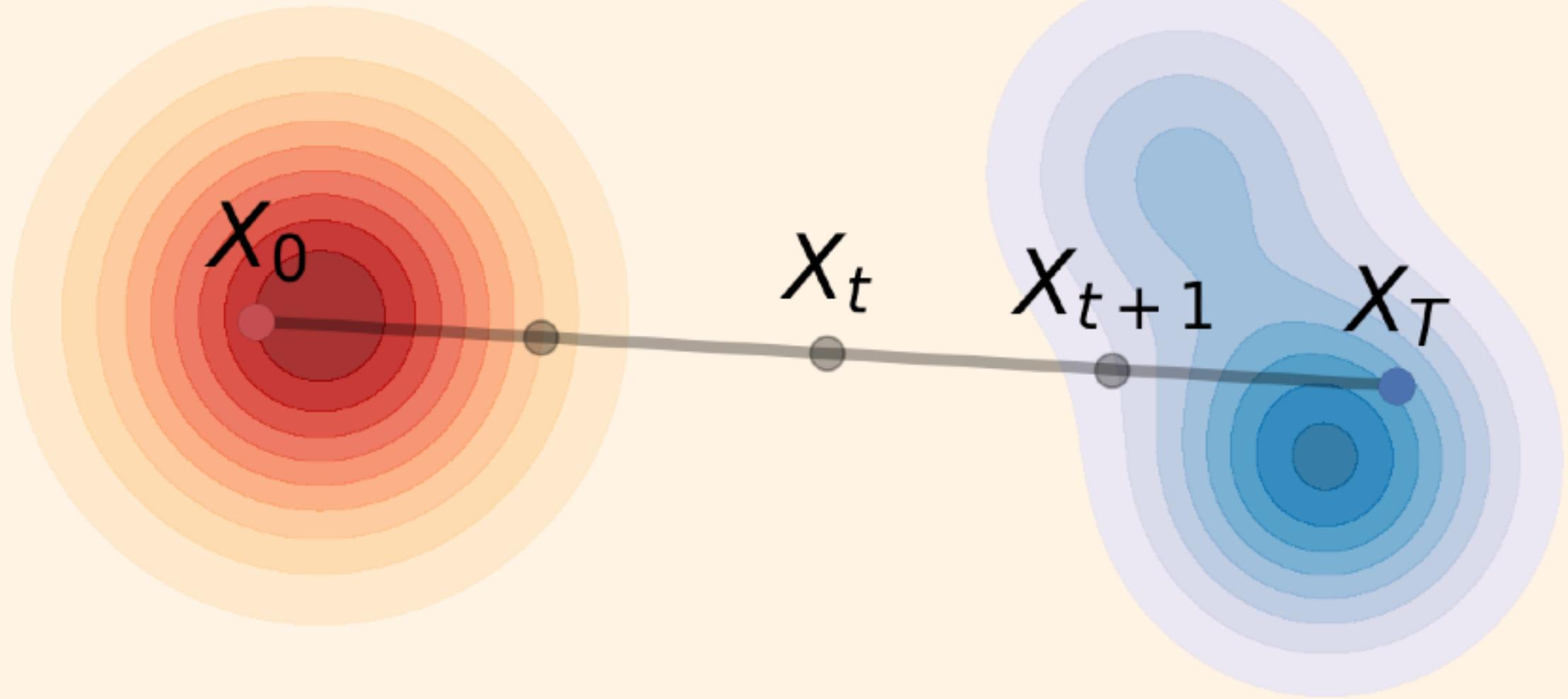
$$X_t +$$

$$\frac{X_t - Y}{t}$$

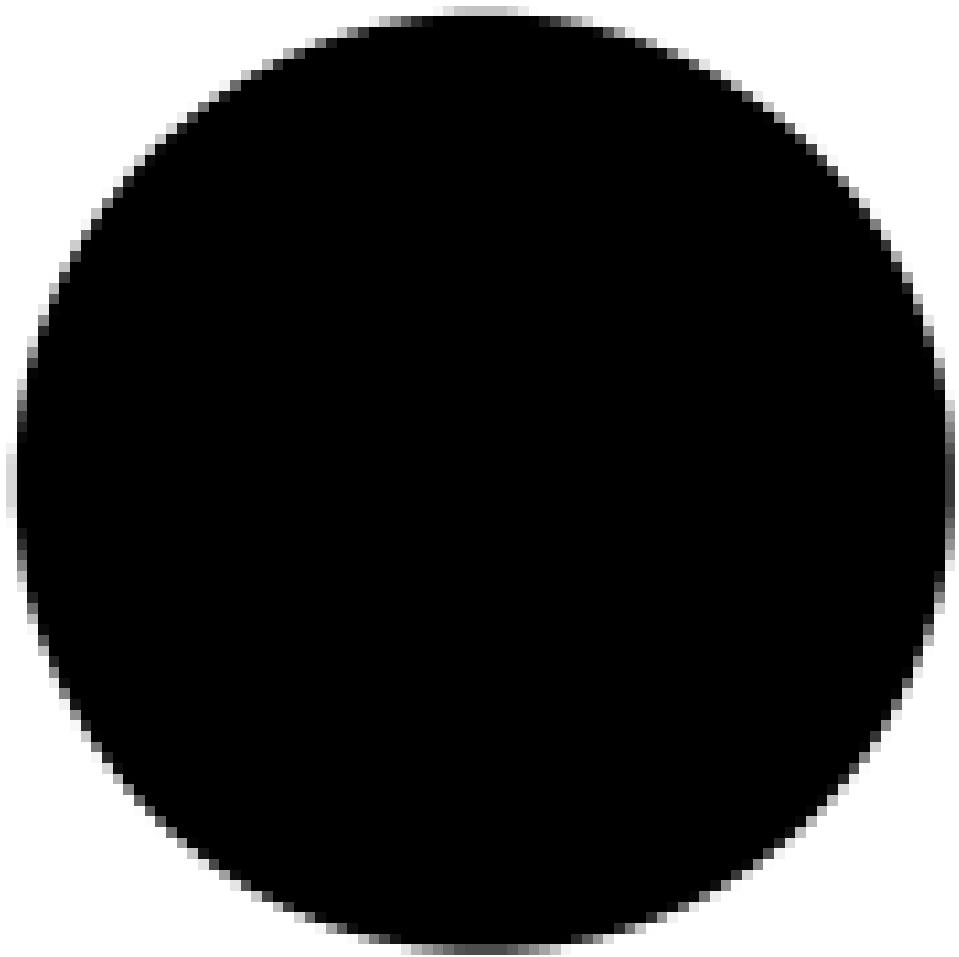




Difference prediction: $\hat{Y} = \hat{X}_T - X_0$







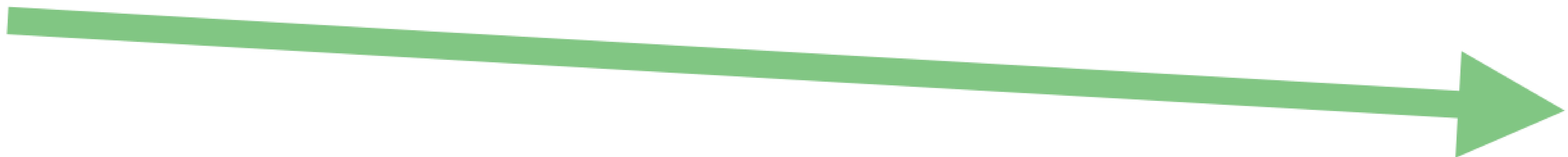








$$X_{t+1} = X_t + Y$$



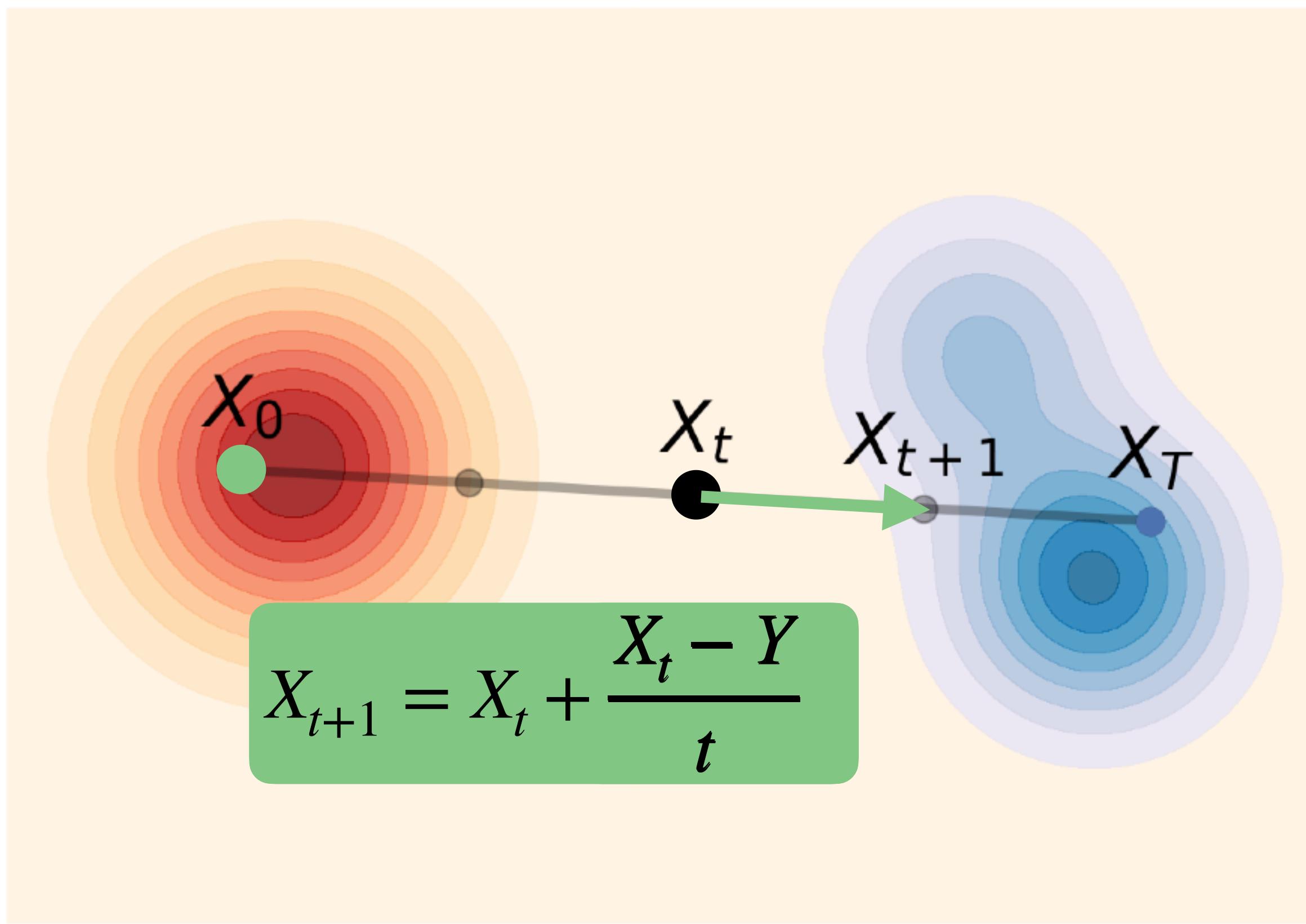




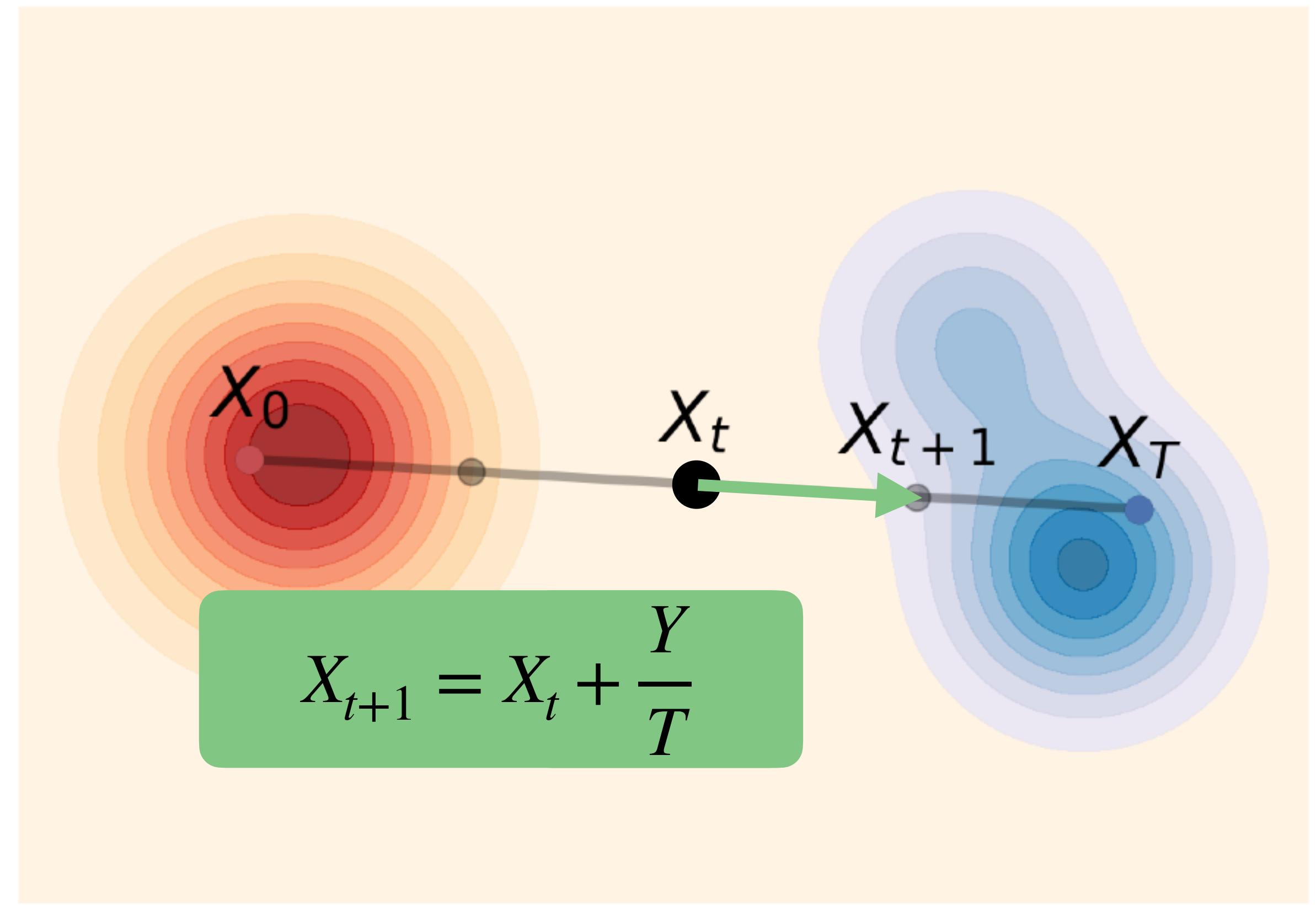
Parametrization

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 $u_s^{\theta}(Y_s|X_t)$.