

# Particle filter

$$t = 1$$

Normalise weights

$$W_1^{(k)} = \frac{w_1^{(k)}}{\sum_{k'} w_1^{(k')}}$$


$$\mathbf{x}_1^{(1)}$$

$$0/5$$


$$\mathbf{x}_1^{(2)}$$

$$2/5$$


$$\mathbf{x}_1^{(3)}$$

$$2/5$$


$$\mathbf{x}_1^{(4)}$$

$$0/5$$


$$\mathbf{x}_1^{(5)}$$

$$1/5$$