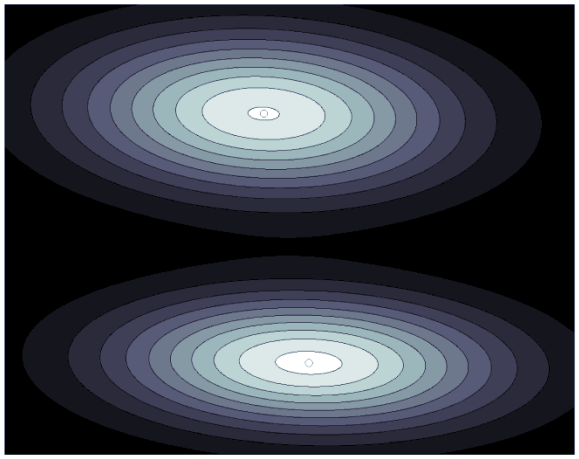
Policy representation: Gaussian Mixture Model

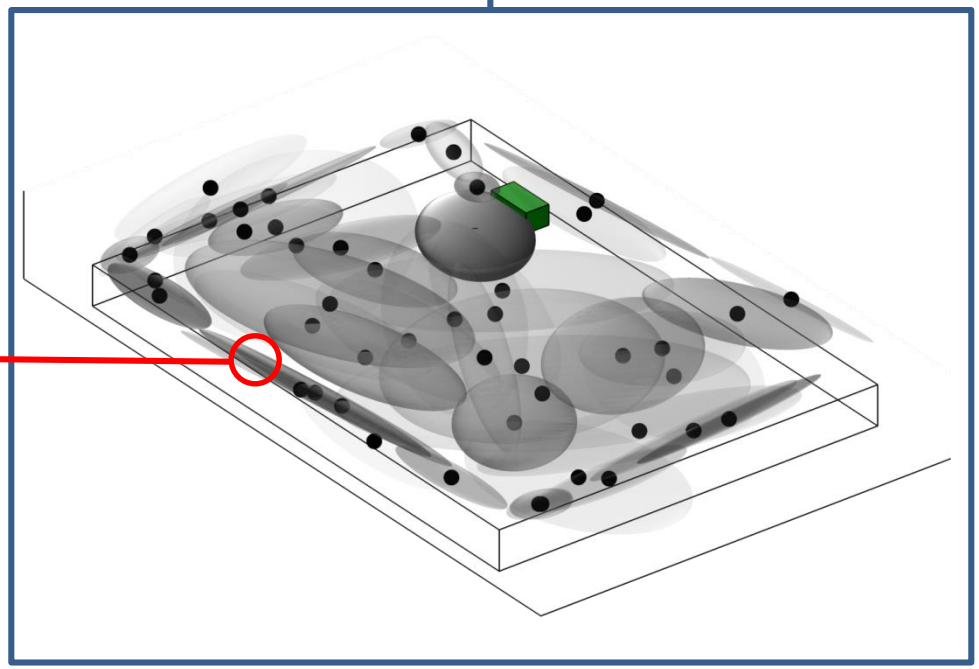
$$\pi_{\boldsymbol{\theta}}(\dot{x}, \hat{x}, U) = \sum_{k=1}^{K} w^{[k]}\, g\left(\dot{x}, \hat{x}, U; \boldsymbol{\mu}^{[k]}, \boldsymbol{\Sigma}^{[k]}\right)$$

Train GMM (7 Dimensions)

$\pi_{\boldsymbol{\theta}}(\hat{x})$

$\pi_{\boldsymbol{\theta}}(\dot{x}|\hat{x}, U)$





Table

$\boldsymbol{\theta} = \{w^{[k]}, \boldsymbol{\mu}^{[k]}, \boldsymbol{\Sigma}^{[k]}\}_{1:K}$

$\hat{x} \in \mathbb{R}^3$: most likely state

$U \in \mathbb{R}^1$: differential entropy