Random state = 11

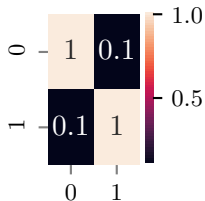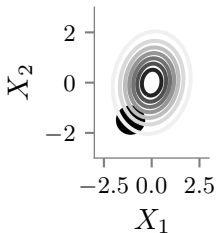**Covariance Matrix**

Contour of pdf

Visualising the point