Random state = 14

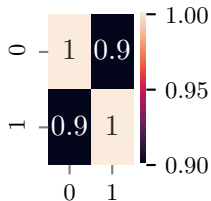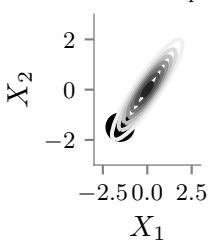**Covariance Matrix**

Contour of pdf

Visualising the point