2. Log-likelihood threshold: $u \sim \text{Uniform}[0,1]$ $\log y \leftarrow \log L(\mathbf{f}) + \log u$ 3. Draw an initial proposal, also defining a bracket: $\theta \sim \text{Uniform}[0, 2\pi]$ $[\theta_{\min}, \theta_{\max}] \leftarrow [\theta - 2\pi, \theta]$ 4. $\mathbf{f}' \leftarrow \mathbf{f} \cos \theta + \boldsymbol{\nu} \sin \theta$ 5. if $\log L(\mathbf{f}') > \log y$ then: Accept: return f'

1. Choose ellipse: $\nu \sim \mathcal{N}(0, \Sigma)$

10.

GoTo 4.

- 7. else:
- Shrink the bracket and try a new point:
- if $\theta < 0$ then: $\theta_{\min} \leftarrow \theta$ else: $\theta_{\max} \leftarrow \theta$ 8. $\theta \sim \text{Uniform}[\theta_{\min}, \theta_{\max}]$ 9.