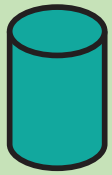
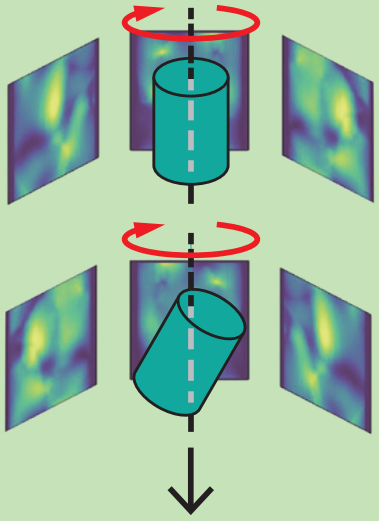
Experiment

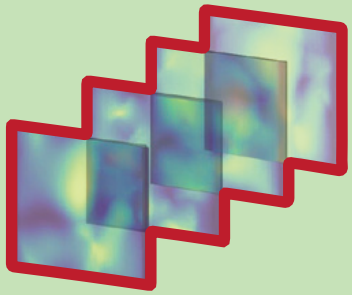
i) Sample



ii) Measure Projections

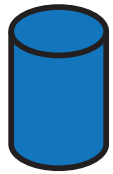


iii) Projection Stack

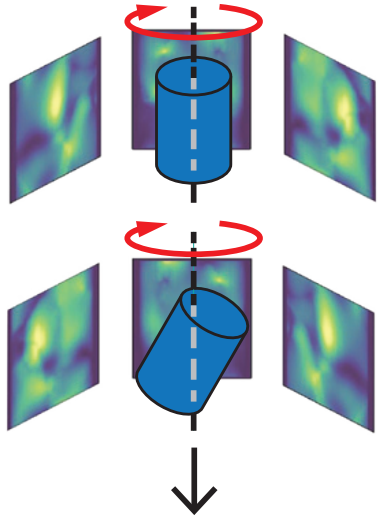


Reconstruction

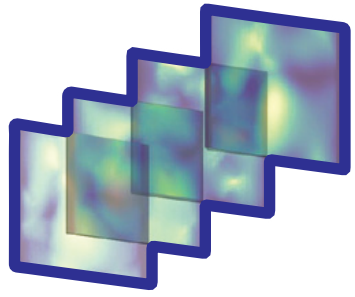
a) Guess Structure



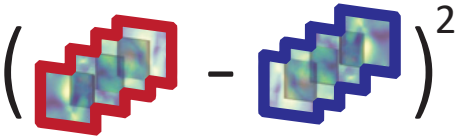
b) Simulate Projections



c) Simulated Projection Stack



d) Evaluate Error Metric



e) Calculate Gradient

$$\frac{\partial \varepsilon}{\partial m_x} = \dots$$

$$\frac{\partial \varepsilon}{\partial m_y} = \dots$$

$$\frac{\partial \varepsilon}{\partial m_z} = \dots$$

f) Apply Correction

$$m_x = m_x - \gamma \frac{\partial \varepsilon}{\partial m_x}$$

$$m_y = m_y - \gamma \frac{\partial \varepsilon}{\partial m_y}$$

$$m_z = m_z - \gamma \frac{\partial \varepsilon}{\partial m_z}$$