\[ \log p(x | \pi, \theta) \]

The graph shows the log probability of \( p(x | \pi, \theta) \) for different iterations. The x-axis represents the iteration, and the y-axis represents the log probability. Two types of mixture models are compared:

- **Dirichlet Process Mixture** (blue solid line)
- **Finite Mixture** (red dashed line)

The Dirichlet Process Mixture converges to a stable value more smoothly and at a faster rate compared to the Finite Mixture model.