

## 1 The plot of residual V.S. the number of repetitions

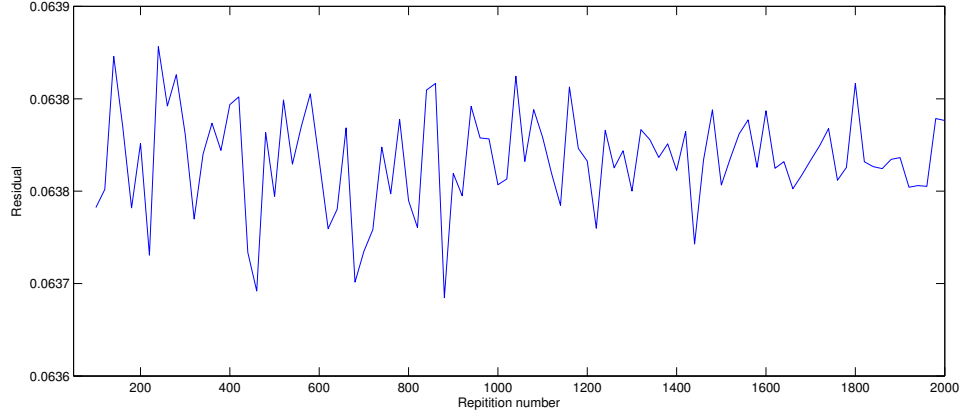


Figure 1: Residual of the mean ODF to the real ODF.

$$\text{Residual} = \left\| \mathbb{E}[\log_{\psi_{real}} \hat{\psi}] \right\|_2 = \left\| \frac{1}{K} \sum_{i=1}^K \log_{\psi_{real}} \hat{\psi}_i \right\|_2 \quad (1)$$

## 2 Logarithm map from $\psi_{mean}$ to $\psi_{real}$

The average logarithm map from  $\psi_{mean}$  to  $\psi_{real}$ ,  $\mathbb{E} \left[ \log_{\psi_{real}} (\psi_{mean}) \right]$ , is almost constant across the number of repetitions, with a maximum variance of  $8.8929 \times 10^{-11}$  in its individual elements.