



$$\begin{aligned} \pi(\tilde{y}_1, \dots, \tilde{y}_N, \alpha, \beta; x_1, \dots, x_N) \\ = \left[\prod_{n=1}^N \pi(y_n \mid f(\alpha, \beta, x_n)) \right] \cdot \pi(\beta) \cdot \pi(\alpha) \end{aligned}$$