

$$(A.6) \quad \text{BF}^{\text{ES}}(\phi, \omega) = \lim_{\substack{\mathcal{Y}_S \rightarrow \mathcal{Y}_S^* \\ \mathcal{Y}_S \rightarrow \mathcal{Y}_S^*}} \frac{\int J_{H_a} \prod_s P(\tau_s) d\tau_1 \cdots d\tau_S}{\int J_{H_0} \prod_s P(\tau_s) d\tau_1 \cdots d\tau_S}$$

$$(A.11) \quad \zeta^2 = \frac{1}{\sum_s (\delta_s^2 + \phi^2)^{-1}},$$

Applying (A.14) results in
(A.22)

$$\text{BF}^{\text{ES}}(\phi, \omega) = \sqrt{\frac{\zeta^2}{\zeta^2 + \omega^2}} \exp\left(\frac{\tau_{\text{ES}}^2}{2} \frac{\omega^2}{\zeta^2 + \omega^2}\right) \cdot \prod_s \left(\sqrt{\frac{\delta_s^2}{\delta_s^2 + \phi^2}} \exp\left(\frac{T_s^2}{2} \frac{\phi^2}{\delta_s^2 + \phi^2}\right) \right)$$