

$$\frac{1}{2} \exp \left(\frac{f_i^c}{2} - \frac{(f_i^c)^2}{2} \omega_0^i \right) \prod_{c=1}^C 2^{-n_c^i} \exp \left(- \frac{n_c^i f_c^i}{2} - \frac{(f_c^i)^2}{2} \omega_c^i \right)$$