

$$L(\{N_{\varpi}^{\text{SS,obs}}\}|\{\xi(\eta, p_{\text{T}})\}) = \prod_{\varpi} \mathcal{P} \left(N_{\varpi}^{\text{SS,obs}} | w_{\text{flip}}(\xi(\eta_1, p_{\text{T},1}), \xi(\eta_2, p_{\text{T},2})) \times N_{\varpi}^{\text{OS+SS,obs}} \right) \quad (1)$$

$$\begin{pmatrix} n_{\text{T}} \\ n_{\text{L}} \end{pmatrix} = \begin{pmatrix} \varepsilon_r & \varepsilon_f \\ 1 - \varepsilon_r & 1 - \varepsilon_f \end{pmatrix} \begin{pmatrix} n_{\text{R}} \\ n_{\text{F}} \end{pmatrix} \quad (2)$$