

$$\mathcal{N} = \sum_{i,j=1}^3 \left[ (h_E)_{ij} H_1 L_i E_j^c + (h_D)_{ij} H_1 Q_i D_j^c + (h_U)_{ij} Q_i H_2 U_j^c \right] - \mu H_1 H_2$$