

type I/het \mathbb{T}^k compactification

$$\text{el} + \text{mg} = 8 - k$$

pos roots $i < j$

$$\begin{aligned} & \left\{ \begin{array}{l} C \\ \tilde{C} - \sum_p C_p \end{array} \right. \begin{array}{l} 2 \\ 6 - k \end{array} \left\{ \begin{array}{l} \mathcal{Z} \\ \bar{*}\mathcal{Z} \end{array} \right. \begin{array}{l} 3 \\ 6 - k \end{array} \left\{ \begin{array}{l} D_1^+ \\ D_5^+/\mathbb{T}_K \end{array} \right. \begin{array}{l} D1 \\ \text{wrap}_k D5 \end{array} \left\{ \begin{array}{l} N_1^+ \\ N_5^+/\mathbb{T}_K \end{array} \right. \begin{array}{l} N1 \\ \text{wrap}_k N5 \end{array} \\ & \left\{ \begin{array}{l} C - C_i \\ \tilde{C} - \sum_{p \neq i} C_p \end{array} \right. \begin{array}{l} 1 \\ 7 - k \end{array} \left\{ \begin{array}{l} \mathcal{X}_i \\ \bar{*}\mathcal{X}^i \end{array} \right. \begin{array}{l} 2 \\ 7 - k \end{array} \left\{ \begin{array}{l} D_1^+/\mathbb{T}_i \\ D_5^+/\mathbb{T}_{K \perp i} \end{array} \right. \begin{array}{l} \text{wrap}_1 D1 \\ \text{wrap}_{k-1} D5 \end{array} \left\{ \begin{array}{l} F_1^+/\mathbb{T}_i \\ N_5^+/\mathbb{T}_{K \perp i} \end{array} \right. \begin{array}{l} \text{wrap}_1 F1 \\ \text{wrap}_{k-1} N5 \end{array} \\ & \left\{ \begin{array}{l} C - C_i - C_j \\ \tilde{C} - \sum_{p \neq ij} C_p \end{array} \right. \begin{array}{l} 0 \\ 8 - k \end{array} \left\{ \begin{array}{l} \emptyset_{ij} \\ \bar{*}\emptyset^{ij} \end{array} \right. \begin{array}{l} 1 \\ 8 - k \end{array} \left\{ \begin{array}{l} D_1^+/\mathbb{T}_{ij} \\ D_5^+/\mathbb{T}_{K \perp ij} \end{array} \right. \begin{array}{l} \text{wrap}_2 D1 \\ \text{wrap}_{k-2} D5 \end{array} \left\{ \begin{array}{l} F_1^+/\mathbb{T}_{ij} \\ N_5^+/\mathbb{T}_{K \perp ij} \end{array} \right. \begin{array}{l} \text{wrap}_2 F1 \\ \text{wrap}_{k-2} N5 \end{array} \\ & \left\{ \begin{array}{l} 0 \\ -K \end{array} \right. \begin{array}{l} 0 \\ 8 - k \end{array} \left\{ \begin{array}{l} \emptyset = \Phi \\ \psi \end{array} \right. \begin{array}{l} \text{dila}_e \\ \text{dila}_m \end{array} \\ & \left\{ \begin{array}{l} C_j - C_i \\ -K - C_j + C_i \end{array} \right. \begin{array}{l} 0 \\ 8 - k \end{array} \left\{ \begin{array}{l} \emptyset_i^j \\ \bar{*}\emptyset_j^i \end{array} \right. \begin{array}{l} 0 \\ 9 - k \end{array} \left\{ \begin{array}{l} \text{KK}_e \\ \text{KK}_m \end{array} \right. \\ & \left\{ \begin{array}{l} C_i \\ -K - C_i \end{array} \right. \begin{array}{l} 1 \\ 7 - k \end{array} \left\{ \begin{array}{l} \mathcal{X}^i \\ \bar{*}\mathcal{X}_i \end{array} \right. \begin{array}{l} 1 \\ 8 - k \end{array} \left\{ \begin{array}{l} \text{MM}_e \\ \text{MM}_m \end{array} \right. \\ & A_1 \times A_1 \\ & A_3 \\ & D_4 \\ & D_5 \\ & D_6 \times A_1 \\ & D_8 \end{aligned}$$