

Smith

IIA D branes

$$d=10$$

$$4\pi\,\varkappa^2=(2\pi\ell)^8$$

$$\text{odd } p+q=8$$

$$(2\pi\ell)^p\,\mathcal{D}_p^-\,(2\pi\ell)^q\,\mathcal{D}_q^-=n\in\mathbb{Z}$$

RR field strength dual coupling

$$\mathcal{X}\sim\begin{cases} D_1^- \\ D_7^- \end{cases}$$

$$\mathcal{X}\sim\begin{cases} D_3^- \\ D_5^- \end{cases}$$

$$\text{T dual mass wall}\begin{cases} D_{-1}^- \\ D_9^- \end{cases}$$