

Maldacena

M2/5 brane decoupling

$$t \frac{u^2}{v^5} s^3$$

N parallel  $M_6^-$  coincide

$${}^{us}H^{1/3} \mathbb{N} = \underline{v}^2 - \underline{t}^2 + {}^{us}H \left( \frac{2}{\underline{us}^2} + \frac{2}{\underline{us}^4} \underline{us}^2 \right)$$

$${}^{us}H = 1 + \frac{\pi \ell^3 N}{\underline{us}^4}$$

$$\mathcal{X} = \dots \Rightarrow N = \mathbb{S}_{\underline{us}}^4 | \underline{\mathcal{X}} \text{ flux}$$

$$R^3 = \pi \ell^3 N \begin{cases} \ell \rightsquigarrow 0 \\ N \rightsquigarrow \infty \end{cases} \Rightarrow \text{AdS}_{2R}^7 \times \mathbb{S}_R^4$$

N parallel  $M_3^-$  coincide

$${}^{vs}H^{2/3} \mathbb{N} = \underline{u}^2 - \underline{t}^2 + {}^{vs}H \left( \frac{2}{\underline{vs}^2} + \frac{2}{\underline{vs}^7} \underline{vs}^2 \right)$$

$${}^{vs}H = 1 + \frac{\pi^6 2^5 \pi^2 N}{\underline{vs}^6}$$

$$\mathcal{X}^* = \dots \Rightarrow \text{flux } N = \mathbb{S}_{\underline{vs}}^7 | \underline{\mathcal{X}}^*$$

$$R^6 = \pi \ell^6 N 2^5 \pi^2 \begin{cases} \ell \rightsquigarrow 0 \\ N \rightsquigarrow \infty \end{cases} \Rightarrow \text{AdS}_{R/2}^4 \times \mathbb{S}_R^7$$