

$$\text{F brane solutions}$$

$$\frac{1}{2} \text{ BPS solution}$$

$$+{2-1\atop 6-1}_1=t^u_v s=\begin{cases} F_2^-\\ F_6^- \end{cases}$$

$$F_2^-$$

$${}^{vs}H=1+2^5\pi^2g_s^2\ell_s^6\frac{N}{\sqrt[6]{vs^6}}$$

$$\mathfrak{I} \mathfrak{Q} = {}^{vs}H^{-1}\left(\underline{u}^2-\underline{t}^2\right)+\underline{vs}^2$$

$${}^{vs}\mathfrak{Q} = {}^{vs}H^{-1/2}$$

$$\mathfrak{Z}_{-}=-{}^{vs}\underline{H}^{-1}\wedge\varepsilon_{tu}$$

$$F_6^-$$

$${}^{us}H=1+\ell_s^2\frac{N}{\sqrt[2]{us^2}}$$

$$\mathfrak{I} \mathfrak{Q} = \underline{v}^2-\underline{t}^2+{}^{us}H\,\underline{us}^2$$

$${}^{us}\mathfrak{Q} = {}^{us}H^{1/2}$$

$$\mathfrak{Z}_{-}^*=\underline{\ln}{}^{us}H\wedge\varepsilon_{tv}$$