$$\mathbb{R}^3 \times \mathbb{T}^1$$

$$\underset{\sim}{x}^3 \; e^{iy}$$

$$y \in \mathbb{R}/\mathbb{Z}$$

$$d\,s^2 = V^{-1} \left(\underset{\sim}{y} + A_{\underset{\sim}{i}} \underset{\sim}{x}^i \right)^2 + V \, \underset{\sim}{\underset{\sim}{x}}$$

$$V = \alpha + \sum_i^{1|s} \frac{2n}{\sqrt{x^1 - x_0^1}}$$

$$\nabla_i \left(A_j \right) - \nabla_j \left(A_i \right) = \varepsilon_{ijk} \, \nabla^k V$$

$$\alpha = 1: \quad \text{ALF}$$

$$\alpha = 0: \quad \text{ALE}$$

$$D = 11: \quad 6 \text{ brane}$$

$$D = 10: \quad 5 \text{ brane}$$

$$A_{s\,-\,1} \text{ singularity on } K3$$