

Gomes

SUSY D7 brane wrapping 4-cycle $2_{\mathbb{C}} \subset 3_{\mathbb{C}}^0$

$3_{\mathbb{C}} | 2_{\mathbb{C}}$

$U(1)$ gauge field on brane \mathfrak{t}

geom moduli $2_{\mathbb{C}} |^{0:2}$

BPS 7branes with $U(1)$ bundles

$2_{\mathbb{C}} \in 3_{\mathbb{C}}^0 |_4^{\mathbb{Z}}$ hol 4-cycle D7 wrapping

$d\mathfrak{t} \in 2_{\mathbb{C}} |^{1:1}$ Chern number D7 gauge field strength $[F]$

Wilson line moduli $2_{\mathbb{C}} |^{0:1}$ untouched by flux

$\mathfrak{X} = \mathfrak{Z} - \tau \mathfrak{Y}$ complex background 3-form flux \Rightarrow discrete D7 positions $2_{\mathbb{C}} |_{\mathbb{Z}}^2 / 2_{\mathbb{C}} |_{\mathbb{Z}}^{1:1}$