

F. Marchesano: "Generalized non-supersymmetric flux vacua"

Thursday, 14 August 2008 10:30 (30 minutes)

I will discuss an strategy to construct 4D $N=0$ stable flux vacua of type II string theory, based on the existence of BPS bounds for probe D-branes in some of these backgrounds. In particular, I will consider compactifications where D-branes filling the 4D space-time obey the same BPS bound as they would in an $N=1$ compactification, while other D-branes, like those appearing as domain walls from the 4D perspective, can no longer be BPS. I will discuss a subfamily of such backgrounds giving rise to 4D $N=0$ Minkowski no-scale vacua, generalizing the well-known case of type IIB on a warped Calabi-Yau.

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