

All rigid N=2 supersymmetric backgrounds

Monday, 24 August 2015 16:30 (30 minutes)

I will discuss how to classify (up to discrete identifications) all rigid 4D N=2 supersymmetric backgrounds in both Lorentzian and Euclidean signatures that preserve eight real supercharges.

These include backgrounds such as warped $S^3 \times \mathbb{R}$, warped $AdS_3 \times \mathbb{R}$, and $AdS_2 \times S^2$, as well as some more exotic geometries. Time permitting, I will also discuss how to construct all supersymmetric two-derivative actions involving hypermultiplets and vector multiplets in these backgrounds.

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