

# Integrable deformations and supergravity backgrounds

*Wednesday 17 January 2024 12:30 (30 minutes)*

In this talk, I will discuss the construction of two supersymmetric solutions of type-II supergravity based on the  $\lambda$ -deformed  $\sigma$ -models for  $SL(2, \mathbb{R})$  and  $SU(2)$ . In the absence of deformation, they describe near-horizon limits of NS1 and NS5 brane intersections and both are 1/2-supersymmetric. When the deformation is turned on, supersymmetry breaks by half and both backgrounds preserve 8 supercharges.

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