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## **Supersymmetric Near-Horizon Geometries**

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The horizon conjecture, proved in a case by case basis, states that every supersymmetric smooth horizon admits an  $sl(2,\mathbb{R})$  symmetry algebra. However it is unclear how string corrections modify the statement. In this talk I will present the analysis of supersymmetric near-horizon geometries in heterotic supergravity up to two loop order in sigma model perturbation theory, and show the conditions for the horizon to admit an  $sl(2,\mathbb{R})$  symmetry algebra. In the second part of the talk, I shall present a step further on answering the question how many extreme black holes posses a prescribed near-horizon geometry.

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