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Probing Black Hole Microstates

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The fuzzball proposal provides one possible resolution to Hawking's information loss paradox within the framework of string theory by conjecturing the existence of a large number of microstates describing a classical black hole. With the goal of gaining a better understanding of the physics in these individual pure states, explicit correlation functions of the D1D5 system are studied. An example of physics that can be studied holographically in these systems is high energy scattering in the presence of an individual microstate.

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