

**SPEAKER:**

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**TITLE:**

The nonlinear stability of the Schwarzschild family of black holes

**ABSTRACT:**

I will present a theorem on the full finite codimension asymptotic stability of the Schwarzschild family of black holes. The proof employs a double null gauge, is expressed entirely in physical space, and makes essential use of the analysis of Dafermos–Holzegel–Rodnianski on the linear stability of the Schwarzschild family. This is joint work with M. Dafermos, G. Holzegel and I. Rodnianski.