



## Prof. Gerard 't Hooft (Utrecht University) The Quantum Structure of the Black Hole Horizon

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It is now generally expected that black holes display a pure quantum spectrum of states. In this respect, they are not fundamentally different from unstable resonances in a scattering process. The properties of these resonances can be derived from Standard Model physics and perturbative gravity. A systematic approach is described that leads to an algebra of operators defined on the horizon, applicable to non-extreme black holes.

**Kontakt:**

Humboldt-Universität zu Berlin . Institut für Mathematik

SFB 647 . Unter den Linden 6 . 10099 Berlin

Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727

sfb647@math.hu-berlin.de

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