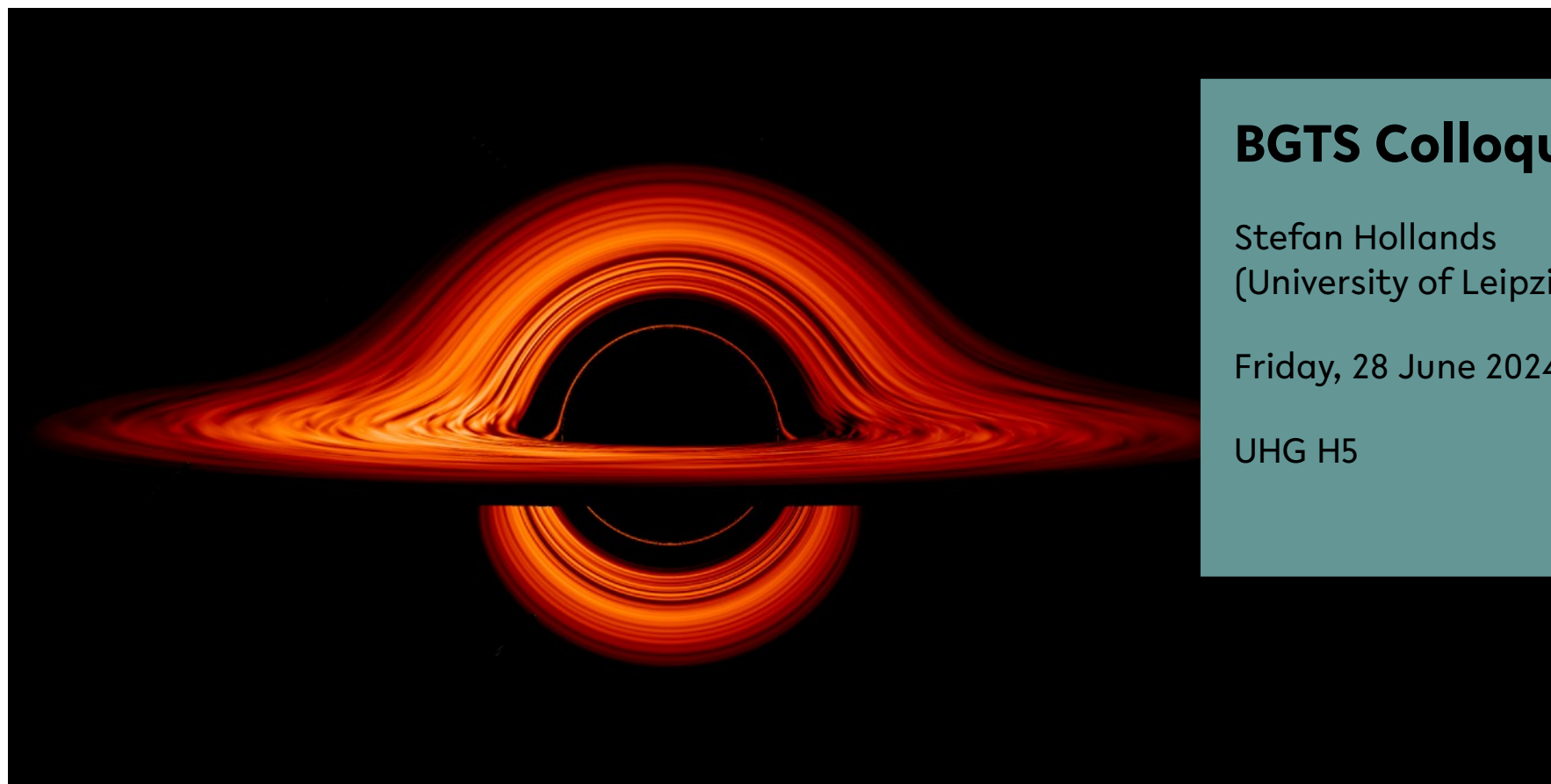


Quantum Effects Inside Black Holes



BGTS Colloquium

Stefan Hollands
(University of Leipzig)

Friday, 28 June 2024, 2pm

UHG H5

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Hidden behind their event horizons, black holes harbour singularities of spacetime.

It has long been debated what is the actual nature of these singularities. Recent theoretical developments suggest that quantum effects strongly influence their macroscopic nature.

In this talk, Stefan Hollands will outline some of these findings and provide glimpses at the mathematical structures that underlie these theoretical developments.

The Bielefeld Graduate School in Theoretical Sciences (BGTS) is a joint institution of the Faculties of Business Administration and Economics, Mathematics and Physics and the Center for Mathematical Economics. It aims at supporting and organising research and research training in Theoretical Sciences with a special focus on interdisciplinary collaboration.

Stefan Hollands, PhD is Professor at the Institute of Theoretical Physics at the University of Leipzig. ■

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