

Flat Space Quantum Gravity



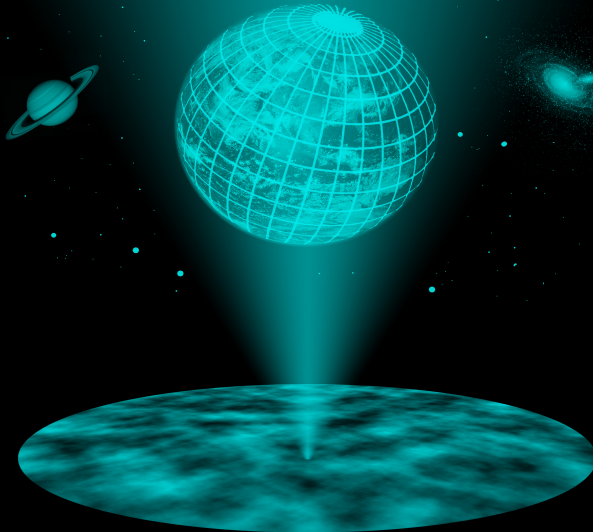
Max Riegler
rieglerm@hep.itp.tuwien.ac.at

Institute for Theoretical Physics
TU Wien

DK-PI Final Event, Sep. 28/29

Introduction

The Holographic Principle

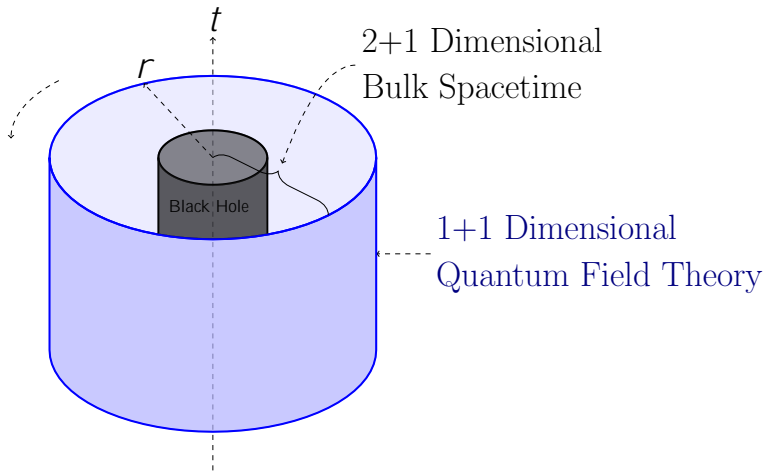


Introduction

The Holographic Principle



(Quantum) gravity $(d+1)$, QFT (d)



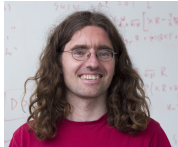
Introduction

Realistic Black Holes



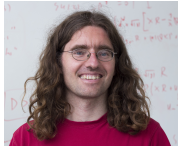
Go beyond AdS/CFT!





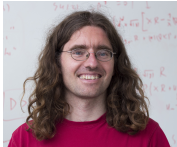
$\int dk \Pi$ Doktoratskolleg
Particles and Interactions

| Research visit 10/2014 - 02/2015 (Tadashi Takayanagi; Kyoto)



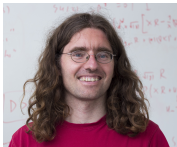
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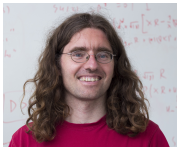
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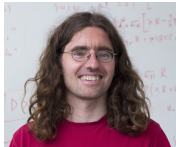
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- | Erwin Schrödinger fellowship (€122k) –declined–

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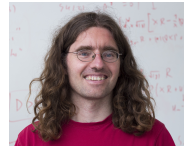
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Career After the DK-PI

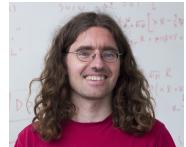
Harvard



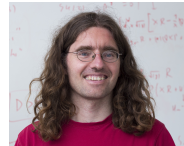
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- | Hans and Walter Thirring Award



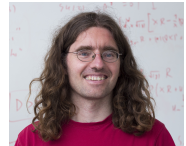
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- | Research: Realistic setups of quantum gravity, chaos, and fundamental aspects of quantum information and entanglement
- | Part of the organizing committee of Strings 2022

| Role: Senior Quantum Key Distribution Expert

Career After the DK-PI

University of Vienna and TU Wien



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- | Start: 12/23

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- | Role: Senior Quantum Key Distribution Expert
- | Start: 12/23
- | Responsibility: QKD security proofs, consulting

A decorative graphic consisting of multiple overlapping, flowing lines in shades of light blue and white. The lines curve from the top left towards the bottom right, creating a sense of motion and elegance. The background is a soft, light blue gradient.

Thank you for your attention!