

Calc5

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1 A Master Thesis Intro

Calc5 is supposed to collect introductory things for an upcoming Master thesis. I especially want to handle literature in a proper way. Propriate Commenting is done in Calc3, anyway.

1.1 A common Introduction

- Idea of extra spacial dimensions goes back to 1920s work of Theodor Kaluza and Oskar Klein. They proposed 4+1 dimensions, 5th dimension shall be microscopic curled up (compactified).
- Famous 1998 paper of Arkani-Hamed, Dimopoulos, Dvali about large extra dimensions
- Paper of Randall and Sundrum of infinite extra dimensions

1.2 Topics and Issues handled by the Intro

- Warum reicht es, Schwarzschild zu betrachten? (BH phases, Spin-Down, etc.)
- Welches Ziel haben meine QGR-Modelle?
- Welche Vorarbeiten gibt es zu analytischen Lösungen der Einstein-Gleichung? - Siehe auch das gleichlautende Buch
- Approaches: NonCommutativity, Holography