



E I N L A D U N G

im Rahmen des Literaturseminars

zum Vortrag

von

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(Grenoble)

über

***„On the scattering theory for the Dirac equation
in the Schwarzschild-Anti-de Sitter space-time“***

ABSTRACT:

I will first describe the Schwarzschild-Anti-de Sitter spacetime and the geometrical properties that makes it interesting to look at when studying hyperbolic equations. I will then present the Dirac equation in this spacetime and investigate quickly the Cauchy problem. The solution is then analyzed from the point of view of scattering theory. First, I will look at this solution in the asymptotic region of the spacetime and give a result about the asymptotic completeness and the asymptotic velocity. Then, I will look at local properties of these fields for large time and give a lower bound on the local energy decay using the construction of exponentially accurate quasimodes. I will then present some tools to obtain an upper bound will then be such as the resonances and the WKB solutions that should allow to localize these resonances.

Zeit: Donnerstag, 02.03.2017, **14:00**

Ort: Arbeitsgruppe Gravitation, Währinger Straße 17, Raum 218,
2. Stock

gez.: P. Chrusciel