

Mathias Becker
Sebastian Schenk
Yong Xu

JOHANNES GUTENBERG
UNIVERSITÄT MAINZ



Theorie-Palaver

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Lorentz room (Staudingerweg 7, 5th floor)

Maria Anayeli Ramirez Ortiz
Milano Bicocca

Advances in AdS/CFT in low dimensions

The AdS₃/CFT₂ correspondence provides the best arena to test the holographic duality. This is because there is a better understanding of how to quantise strings on AdS₃, compared with the higher dimensional cases, and the relative tractability of two-dimensional CFTs. In spite of this, little effort has been made to construct and classify supersymmetric AdS₃ solutions. With a focus in their CFT interpretation, in this talk I will show you new AdS₃ solutions in massive type IIA supergravity preserving small N=(4,0) supersymmetry. From the geometry, we engineer the dual CFT with well-known tools and propose a duality with a precise family of quivers. Additionally, we compute field theory and holographic central charges showing a clean matching in both descriptions.

Contact:
bmathias@uni-mainz.de

sebastian.schenk@uni-mainz.de

yonxu@uni-mainz.de