

Seminar Fizičkog odsjeka

Sveučilište u Zagrebu

Vrijeme (s.t.)

Mjesto

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predavaonica **F-201**

Kounterterms in anti-de Sitter gravity

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As an alternative to the holographic renormalization procedure in the context of AdS/CFT correspondence, we introduce a regularization scheme for AdS gravity based on the addition boundary terms which are a given polynomial of the extrinsic and intrinsic curvatures (kounterterms). Since these terms are closely related to either topological invariants or Chern-Simons densities in the corresponding dimension, they can be easily generalized to other gravity theories (Einstein–Gauss–Bonnet, Lovelock, etc.). Finally, a general prescription on how to obtain the standard counterterm series in AdS gravity is given.

[1] G. Olavarría, R. Olea: *Vacuum energy in Kerr-AdS black holes*,
[arXiv:1308.2707]

[2] R. Olea: *Regularization of odd-dimensional AdS gravity: Kounterterms*,
JHEP **04** (2007) 073 [arXiv:hep-th/0610230]

Voditelji seminara FO
Damir Pajić i Ivica Smolić