

Holographic Weyl anomaly and Kounterterms in AdS gravity

DR. GIORGOS ANASTASIOU
UNIVERSIDAD ADOLFO IBAÑEZ (CL)



The addition of Kounterterms to Einstein gravity leads to a finite action for asymptotically anti-de Sitter (AdS) spaces with a conformally flat boundary. In that sense, it provides a partial renormalization for AdS gravity when compared to standard holographic techniques, where the mismatch is given in terms of nontrivial conformal properties of the boundary. On the other hand, this method has the clear advantage that the variation of the action has a closed form in an arbitrary dimension. In this work, it is shown how to extract holographic information on conformal anomalies from the variation in $(2n+1)$ -dimensional Einstein-AdS plus Kounterterms. Remarkably enough, a considerable part of the Weyl anomaly can be worked out for any odd dimension.

29 JULIO
2026

13:00

Salón de Seminarios de
Gravitación y Física de
Altas Energías, A225, ICN



Instituto de
Ciencias
Nucleares
UNAM



IF
Instituto de Física
UNAM



<https://indico.nucleares.unam.mx/event/2679/>

zoom:

<https://cern.zoom.us/j/63861353708?pwd=cTBSMXBGc29iRVhWS3lUVmdLajZwZz09>

Física de
ALTAS ENERGÍAS
SEMINARIO