Institut Henri Poincaré

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String Theory in Greater Paris

Rencontres Théoriciennes

"Supergravité, théorie des cordes et théorie M"

Jeudi 22 Septembre 2022, 11:40

Benjamin Withers

University of Southampton

onvergence of the Fefferman-Graham expansion and complex black hole anatomy

The AdS/CFT correspondence provides a map between data appearing in AdS gravity and CFT sources and one-point functions in the presence of sources. This data appears in a near-boundary expansion for asymptotically AdS spacetimes, the Fefferman-Graham expansion. In this talk I will discuss the large-order behaviour of the Fefferman-Graham expansion for black holes and holographic RG-flows. I will identify the physical features limiting its radius of convergence and discuss the causal structure appearing over multiple sheets of the complex Fefferman-Graham plane.

Institut Henri Poincaré, salle 314, 3ème étage

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