

WORKSHOP ON SUBMANIFOLD THEORY AND GEOMETRIC ANALYSIS

UFSCAR, SÃO CARLOS, BRAZIL, AUGUST 05 – 09, 2019

MONDAY- 16h - 16:50h -AUDITÓRIO DO DM

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The positive mass theorem for asymptotically hyperbolic manifolds
with noncompact inner boundary and applications

ABSTRACT. We present a sharp positive mass inequality for the class of manifolds in the title in the spin setting, under suitable dominant energy conditions. We then discuss applications, including a rigidity result in the class of conformally compact Einstein metrics which extends to this context a celebrated result by Andersson-Dahl and makes contact with the so-called AdS/BCFT correspondence, a version of the classical AdS/CFT correspondence in which the conformal boundary itself carries a nonempty boundary. Joint work with S. Almaraz.

Support:



Organizers:

