

# WORKSHOP ON SUBMANIFOLD THEORY AND GEOMETRIC ANALYSIS

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

FRIDAY- 14:40h - 15:10h -AUDITÓRIO DO DM

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Spacetime positive mass theorems for initial data sets with  
noncompact boundary

ABSTRACT. We define an energy-momentum vector at the spatial infinity of either asymptotically flat or asymptotically hyperbolic initial data sets carrying a noncompact boundary. Under suitable dominant energy conditions imposed both on the interior and along the boundary, we prove the corresponding positive mass inequalities under the assumption that the underlying manifold is spin. This a joint work with Levi Lopes de Lima (UFC) and Luciano Mari (Università degli Studi di Torino).

Support:



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