

Math Colloquium CIDMA/UAlg

Gravitational Waves: A game changer for astrophysics and cosmology

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Abstract: Following their first direct detection, gravitational waves (GWs) have become a central topic in modern physics. This talk provides an introductory overview of GW physics, from theoretical origin to experimental detection techniques. We then discuss their role as powerful probes of fundamental physics and cosmology, and conclude by presenting recent work carried out in collaboration with Prof. Paulo M. Sá at the University of Algarve on GWs in cosmological scenarios.

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