

Università degli Studi della Basilicata
Dipartimento di Ingegneria

Si avvisano gli interessati che *mercoledì 5 marzo 2025*
alle ore 15:30 nell'Aula 18 (ex DIMIE),

Antonella Micol FRASSINO
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terrà la conferenza dal titolo

New developments in black hole thermodynamics

Summary. For decades, the relationship between black hole physics and thermodynamics has intrigued mathematicians and physicists, stemming from the foundational work of Bekenstein, Hawking, Bardeen and Carter. At the time, this was an innovative approach drawing analogies between black hole mechanics and the laws of thermodynamics. In addition, this surprising connection was also fueled by Jacobson's interpretation of the Einstein equations as a thermodynamic equation of state. In more recent years, the inclusion of the cosmological constant as a thermodynamic variable has led to the development of "black hole chemistry". This talk will explore these profound connections between black hole mechanics and thermodynamics, and the implications of black hole chemistry for the study of black hole properties and phase transitions.