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New physics on the horizon? Testing the nature of dark compact objects

Tuesday 2 March 2021 14:00 (1 hour)

Gravitational-wave astronomy and new electromagnetic facilities allows us for unprecedented tests of the nature of dark compact objects and provide a novel way to search for new physics. I will give an overview of the many recent result in this area including, shadows, constraints on the multipolar structure, ringdown tests, gravitational-wave echoes, and tidal effects in binaries.

Presenter: Prof. PANI, Paolo (Sapienza University of Rome)