Type: Invited speaker talk

## Extreme mass-ratio inspirals into black holes surrounded by boson clouds

Thursday, 24 October 2024 15:00 (30 minutes)

Boson clouds can form through superradiant instabilities of ultralight bosons around spinning black holes. The formation of boson clouds leads to a number of potentially detectable signatures, among them the possibility that they can affect the dynamics of binary black hole systems. In this talk I will review recent work aiming at studying extreme-mass-ratio systems in which a small compact object evolves around a massive black hole surrounded by a boson cloud.

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