

Black Holes as Laboratory for Dark Matter

Wednesday, 20 May 2026 14:50 (30)

The dark matter surrounding black hole would form dense dark environment, studying the imprint of dark matter on the observational signals from black hole via accretions and dynamical friction could be a dark matter probe. In this talk I am going to talk about how to study the nature of dark matter from radio, optics and gravitational wave channels. With these studies, black hole would be a promising laboratory for dark matter in future observations.

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Session Classification : Day 1