



Contribution ID: 32

Type: **Invited Talk**

Gravitational wave probes of dark matter

Tuesday, 17 September 2024 09:00 (55 minutes)

I discuss the interplay between dark matter, black holes, and gravitational waves, and the prospects for characterizing and identifying dark matter using gravitational waves. I will present some new results on the detectability of dark matter overdensities around black holes in binary systems, and argue that future interferometers may enable precision studies of the dark matter distribution and particle properties.

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Session Classification: Dark Matter

Track Classification: Dark Matter