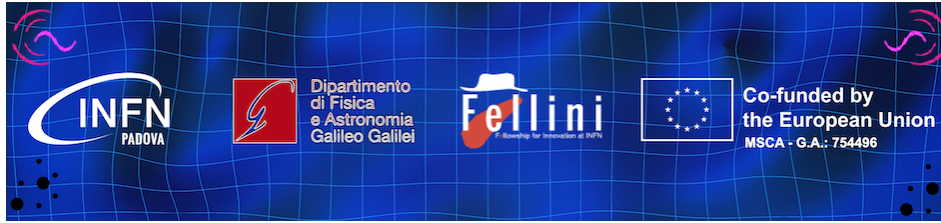


# Messengers of the very early universe: Gravitational Waves and Primordial Black Holes



Contribution ID: 64

Type: **Invited Talk**

## Micro lensing of gravitational waves by dark matter

*Tuesday, 13 December 2022 12:00 (30 minutes)*

Gravitational lensing of gravitational waves provides a potential new probe of dark matter structures. In this talk, I will focus on the microlensing effect on gravitational wave signals from compact object binaries. I will describe how this effect changes the gravitational wave signal and discuss whether it can be detected. I will show that primordial black holes and other compact dark matter objects can be probed through the microlensing of gravitational waves.

**Presenter:** VASKONEN, Ville

**Session Classification:** 13th morning session part 2