

# The Third National Workshop on the SKA Project - The Italian Route to the SKAO Revolution



Contribution ID: 21

Type: **not specified**

## Combining gravitational waves with SKAO observations

*Tuesday, 5 October 2021 12:00 (20 minutes)*

I will review the possibility to combine galaxy and intensity mapping observations from the SKAO with gravitational waves (GW) detected by laser interferometers. Cross-correlating Large Scale Structure (LSS) data with GWs it will be possible to test the existence and abundance of primordial black holes and perform innovative tests of gravity. Finally, I will explore new ideas for testing the physics of the early Universe by combining LSS SKAO data with GWs.

### Research area

Gravitational Waves

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**Session Classification:** Transients & Gravitational Waves