

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



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## LOFAR Observations of the Euclid Deep Field North

*Thursday, 7 October 2021 15:30 (20 minutes)*

I present the results obtained from the first set (about 70 hours) of LOFAR HBA observations of the Euclid Deep Field North (EDFN). EDFN is becoming the highest priority deep field for LOFAR and has been awarded further 320 hours of observations that will be carried out in the next semesters. This first set of observations has been reduced and analyzed in Italy by the LOFAR-IT collaboration using the Occam Supercomputer. I will summarize the data reduction challenges, the data products obtained from the data analysis and I will show some preliminary results obtained from the inclusion of the international stations that allow to sharpen the angular resolution from 6 arcsec to 0.3 arcsec.

### Research area

Extragalactic Continuum (galaxies/AGN, galaxy clusters)

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