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Neutral hydrogen intensity mapping in the era of the SKA Observatory

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In this talk, I shall review the prospects for neutral hydrogen (HI) intensity mapping with the SKA Observatory (SKAO). HI intensity mapping will be highly complementary to traditional cosmological probes such as galaxy clustering and weak lensing, allowing us to test the foundations of our concordance cosmological model - an especially timely endeavour, in the view of the newest results but the Dark Energy Spectroscopic Instrument. Moreover, HI intensity mapping with the SKAO has the potential to open new windows on the understanding of inflation and gravity on cosmological scales, alone and in synergy with cosmological surveys at other wavelengths.

Author: CAMERA, Stefano (University of Turin)

Orateur: CAMERA, Stefano (University of Turin)

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