

IV Workshop ADONI



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SHARP a near-IR suite for ELT

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It is the joining of the largest aperture with the Adaptive Optics (AO) systems that will allow ELT to provide unparalleled data, sharper and deeper than JWST. Therefore, the spectrograph foreseen at the 2nd port of MAORY@ELT will be the most powerful and coveted instrument in the JWST era, the one able to see what the others cannot. SHARP is a concept study for a near-IR (0.95-2.5 μm) spectrograph conceived for the 2nd port of MAORY@ELT. SHARP is composed of a Multi-Object Spectrograph (MOS) and a multi Integral Field Unit (mIFU). The wavelength range extending up to $\sim 2.5 \mu\text{m}$ and the AO-assisted observing mode, will complement MOSAIC and ANDES, both limited to 1.8 μm and not supported by AO systems, allowing us to study the physics of the formation and the evolution of galaxies and the very distant Universe at unprecedented details. In this talk I will present the scientific motivations behind SHARP, the main requirements, the current team, the status and the issues of the study. The aim is to stimulate interest among the technological community to find support and help to carry on the pre-phase A study of SHARP.

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