## Johan Richard (CRAL) and the BlueMUSE consortium

BlueMUSE: the Blue Multi Unit Spectroscopic Explorer

BlueMUSE is a blue-optimised, medium spectral resolution, panoramic integral field spectrograph under development for the Very Large Telescope (VLT). With an optimised transmission down to 350 nm, spectral resolution of R~3500 on average across the wavelength range, and a large FoV (1 arcmin2), BlueMUSE will open up a new range of galactic and extragalactic science cases facilitated by its specific capabilities. The BlueMUSE consortium includes 9 institutes located in 7 countries and is led by the Centre de Recherche Astrophysique de Lyon (CRAL). The BlueMUSE project development has just finished Phase A work and has an expected first light at the VLT in 2032.

As the project is moving into construction phases, I will present an overview of the main science cases foreseen for BlueMUSE, specifically highlighting key aspects related to the study of nearby galaxies and the extragalactic Universe near Cosmic Noon. At a time when the focus of most of the new large facilities (ELT, JWST) will be on the infrared, we expect BlueMUSE to become a unique facility outperforming any ELT instrument in the Blue/UV. It will have a strong synergy with ELT, JWST as well as ALMA, SKA, Euclid and Athena.