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## On the Optical Properties of Cosmic Telescopes: A Spectroscopy study of the inner core of a Massive Galaxy Cluster

*Tuesday, 1 October 2019 11:30 (30 minutes)*

We have used a VLT-VIMOS data-set and analyzed VLT-MUSE data on the inner core of a galaxy cluster, obtaining spectra and measuring with high precision redshifts of cluster members, which were used to make an ATLAS of the galaxy population diversity that will be useful in further studies. We also used this spectroscopic information to classify the galaxy population as a function of the radio cluster center distance of a massive galaxy cluster to verify if it was in agreement with the observed distribution in others clusters at the same redshift. Finally, We described the projected number density profile and the stellar mass function of a massive galaxy cluster at intermediate redshift.

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