The OTELO Survey

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OTELO: OSIRIS Tunable Emission Line Object Survey







Some hints about OTELO

Field of view:Extended Groth Strip + Lockman Hole(2 pointings covering 50 arcmin² each)

Wavelenght range: 9070 - 9280 Å (NIR) → window in the airglow emission

Spectral resolution: to distinguish [NIII] (6583 Å) from Hα (6563 Å) (R=700)

 \rightarrow 2D low resolution spectroscopy

Scientific goal:

detect all the objects with emission lines in the field and produce the biggest and deeper catalogue of emitting objects

Status of the OTELO survey 1st pointing

λ

9154

9202

9280

Reduced and analysed data (37%) Reduced data (60%) Observed data (100% completed a few days ago!!)

9070 Å

Preliminary results





Future work

- Finish the reduction of the data, identify the emission lines, extract the fluxes and EWs...
- Expand the catalogue with data from other surveys at different λ: Herschel (PACS), Spitzer, AEGIS...

Thesis goal:

→ Identify and separate Active Galactic Nuclei (AGN) from Star-forming Galaxies (SfG)

 \rightarrow Study in detail the AGN population

