Emitting objects in OTELO survey: AGN hunting

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The selection of Broad-Line AGN is done by fitting the pseudo-spectra of a set of objects from the Sloan Digital Sky Survey.

For more information about OTELO, don’t miss:
• J. Cepa’s talk on Thursday, 09:00
• J. Nadolny’s poster on the morphological classification of OTELO’s sources
• Á. Bongiovanni’s poster on the very high redshift component of OTELO

AGN selection & Hα+[NII] flux estimation

BLAGN:

The selection of Broad-Line AGN is done by fitting the pseudo-spectra of a set of objects from the Sloan Digital Sky Survey.

NLAGN:

The selection of Narrow-Line AGN is made using a set of equations that assumes infinitely thin lines (Cid-Fernandes+2010). Previously, the line+[NII] fluxes and equivalent widths are determined as in Sánchez-Portal+2015. To do that, the two lines are deblended using a set of equations that assumes infinitely thin lines (Cid-Fernandes+2010).

AGN diagnostics diagrams

To distinguish between Active Galactic Nuclei (AGN) and Star-Forming Galaxies (SFG) we use diagnostic diagrams. A few examples are, from top to bottom and from left to right: the mid-infrared color-color diagram, the mid-infrared Hα+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation, the mid-infrared+[NII] flux estimation.