Search for optical variable sources with HST Identification & classification of AGN with VO tools

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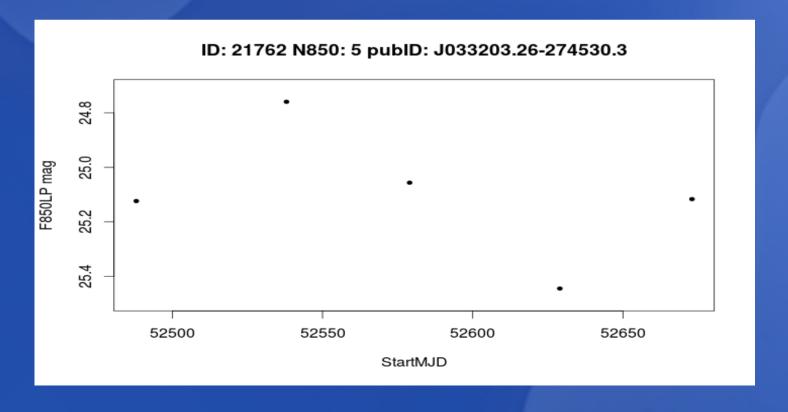


Work packages Identify variable sources in a field (point-like + extended)

- Rejection of stars + SN
- → AGN candidates Catalogue
- Create SEDs for AGN candidates
 - SED fitting → AGN classification
 - Compute redshifts

<u>Identify variable sources in a field</u>

- Reduction of data (MAST Portal Casjobs)
 (VO tools maybe faster?)
- Variability Algorithms (Java, R, Python)

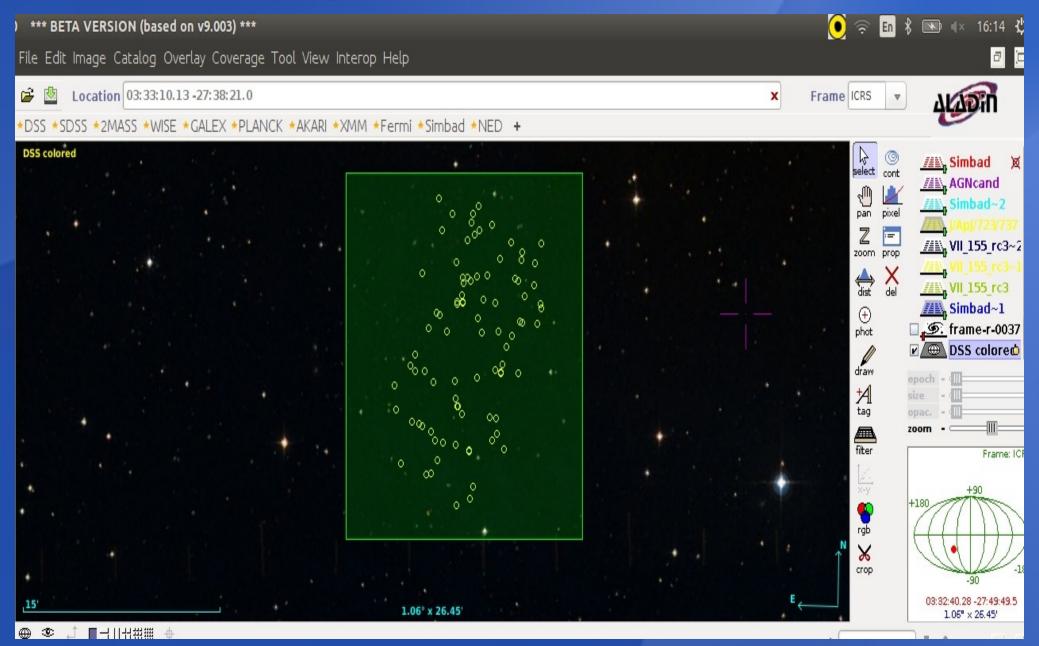


Rejection of stars + SN

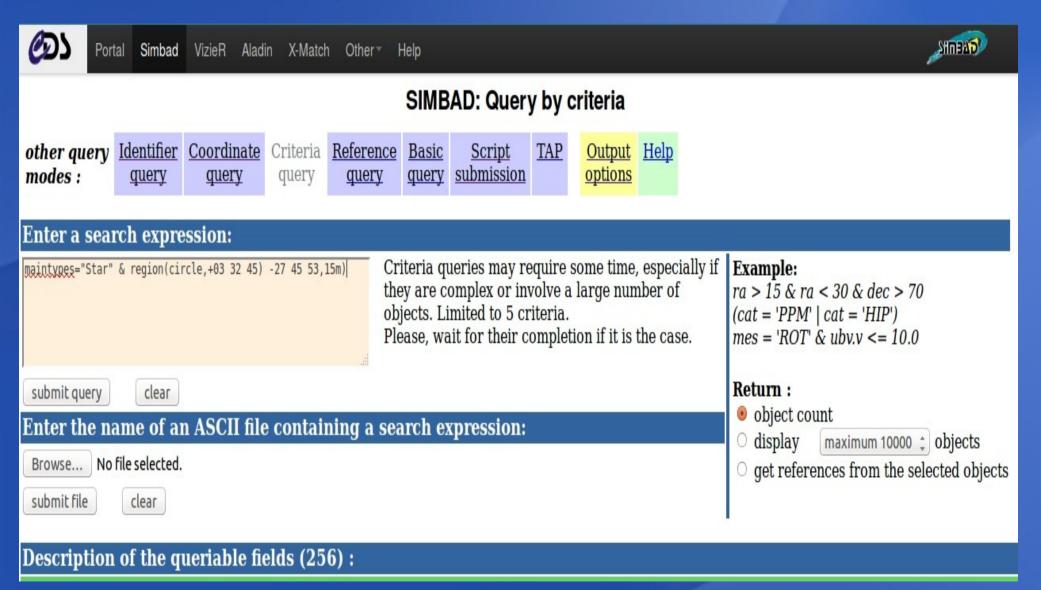
 Cross-match the AGN candidates catalogue with all published catalogues to reject stars-binaries-SN

With VO Tools → EASY! + FAST!
 Using Aladin + Simbad + TopCat

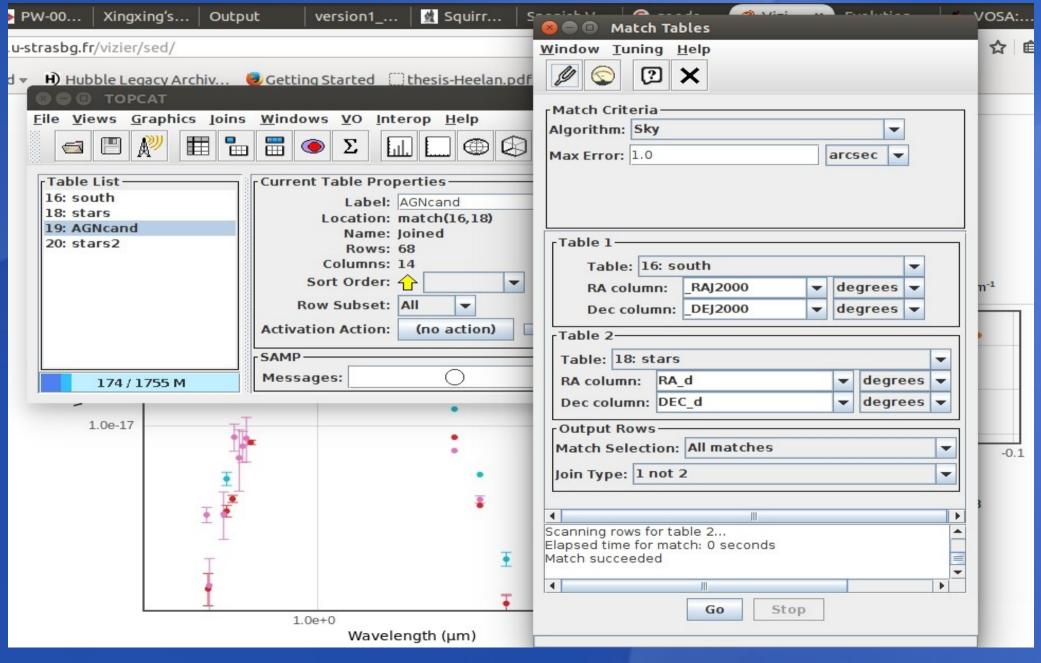
Rejection of stars + SN



Rejection of stars + SN

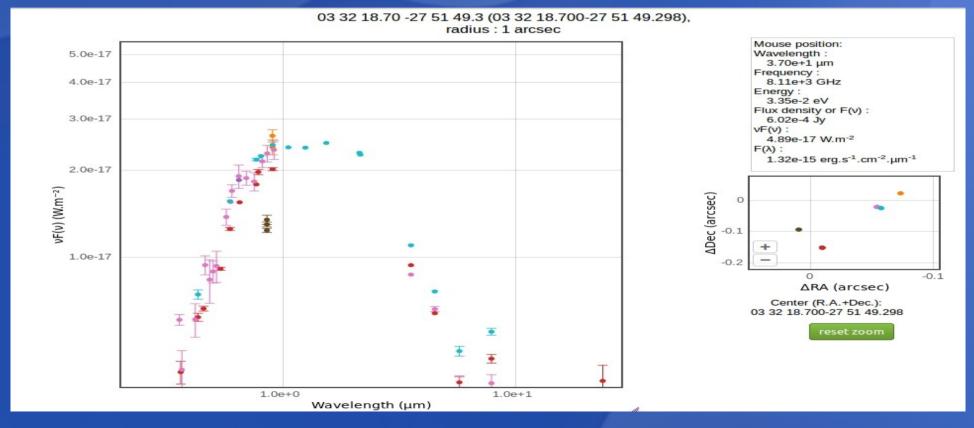


<u>Rejection of stars + SN</u>



Create SEDs for candidate AGN

€ D3	Portal	Simbad	VizieR	Aladin	X-Match	Other	Help	@
VizieR Photometry viewer								
3 Documen	ocumentation ▼ settings ► sh							ettings ▶ share
		Target		03 32 1	18.70 -27 5	1 49.3		
	Radius (in arcsec) 1							
				sub	mit			



SED fitting + Redshifts

- Redshifts using SPLAT-VO?
- Not any AGN (QSO, Seyf. I&II,Blazar)
 fitting SED models in VO tools

- → Propose AGN models to VO Tools Team?
- → Different approach/tools?

VO Tools are Useful!!

Thank you!