BALATON

Kārlis Bērziņš Leonard Burtscher Iván Martí-Vidal

תבשיט נמשויגעפנ (Mohsen Ramezanpour) **Eлизавета Расторгуева**(Elizaveta Rastorgueva)

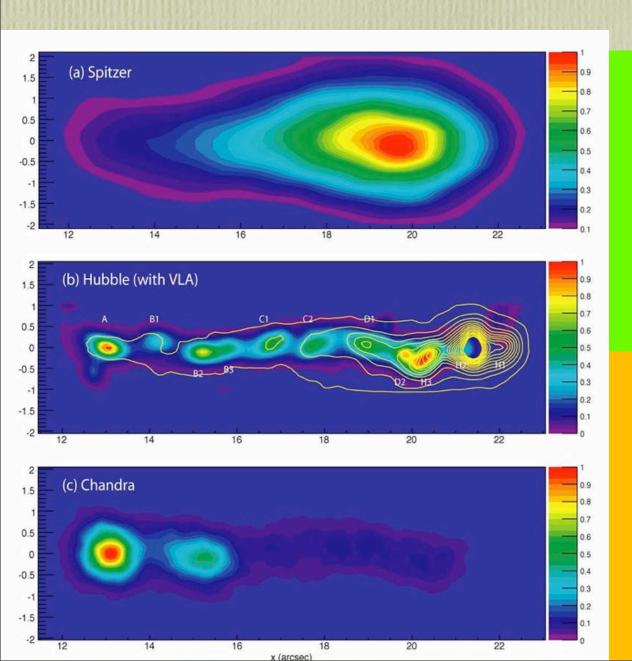
BALA ON Best AnguLAr resolution s Tudy Of active galactic Nuclei

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תבשיט נמביייניפני (Mohsen Ramezanpour) **Eлизавета Расторгуева**(Elizaveta Rastorgueva)

Why?

The Science Case



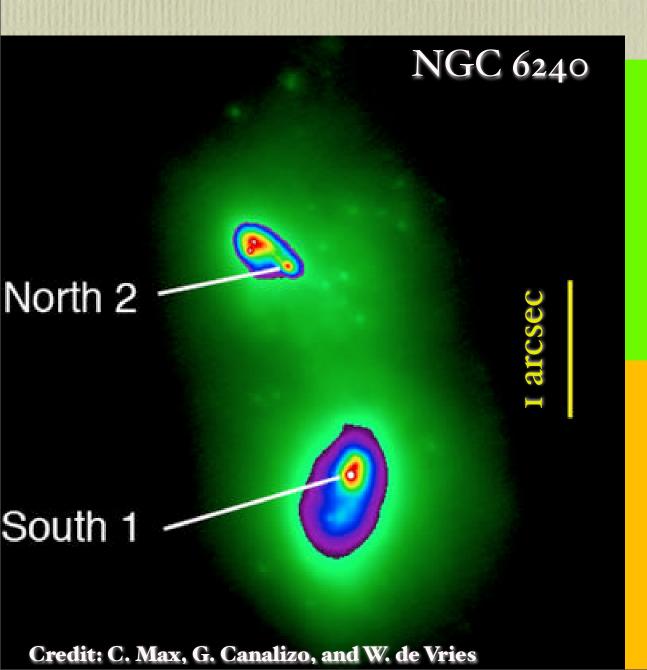
PRIMA+AMBER

Detect non-pointsymmetric behaviour to a
very good accuracy
(optical-radio structure
correlations, maybe
constrain ICRS)

For double quasars:
detect with very high
resolution proper
motion between
foreground and
background QSO

Why?

The Science Case

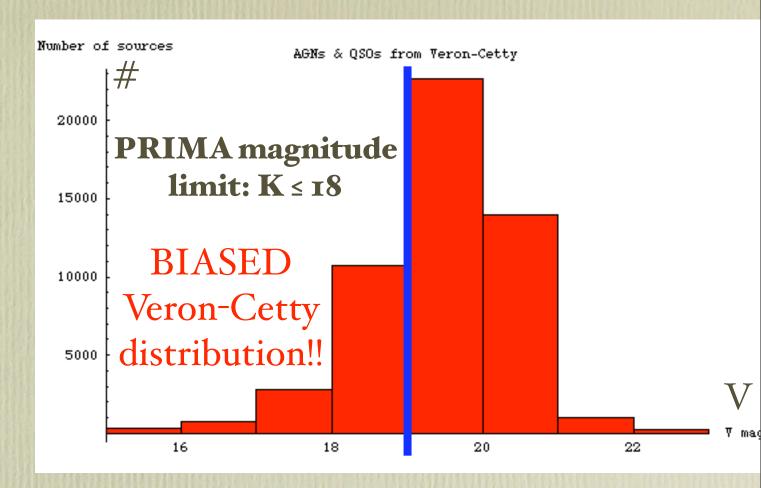


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The sample



- By using AGN catalog by Veron-Cetty (2006, 12th ed.) and cross-correlating with 2MASS, i.e. computing the calibratable area
- Using correction factor from SDSS mean sky density of AGNs, we found at least 42 expected candidate sources (i.e. K < 18 mag source within 20" to a K < 10 mag point source)

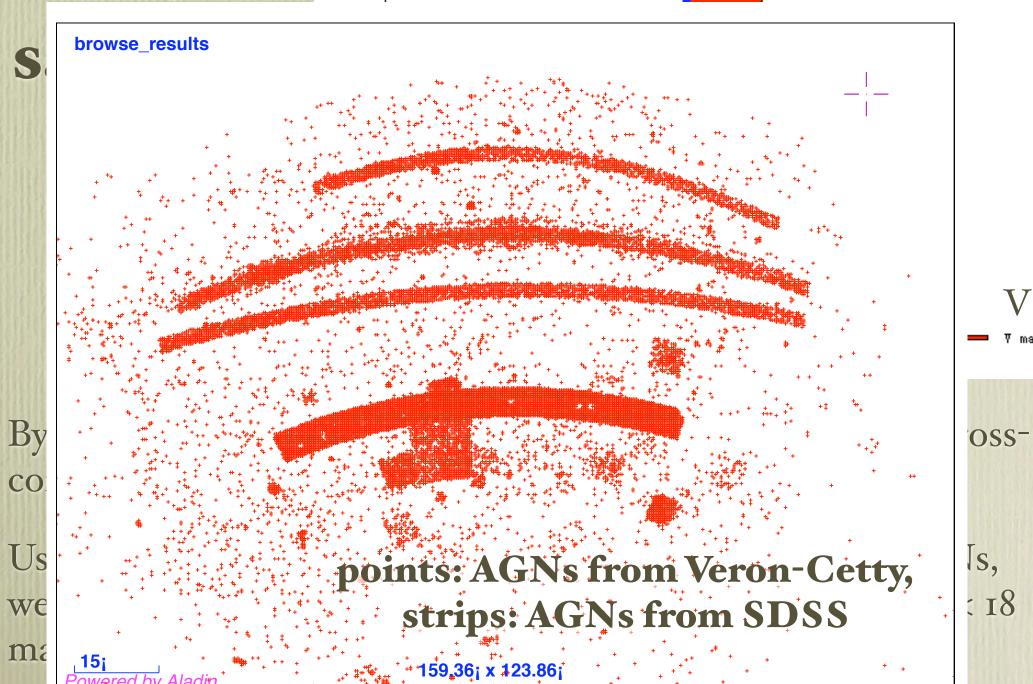
The

Number of sources

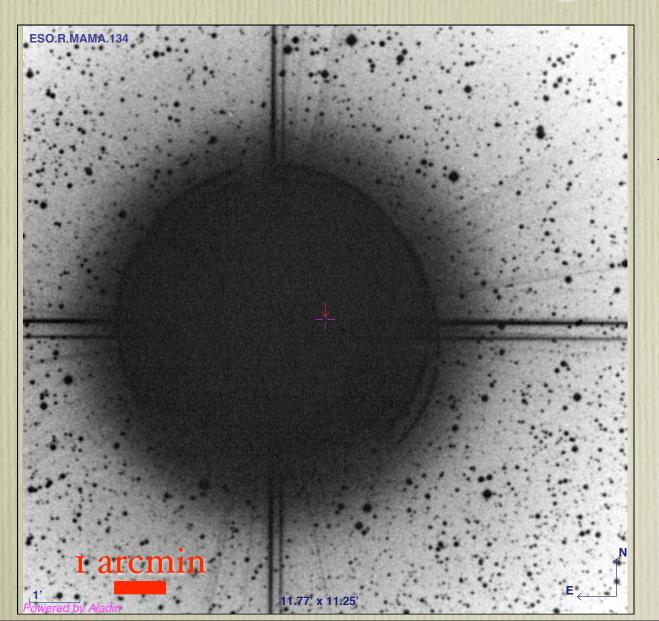
#

AGNs & QSOs from Veron-Cetty



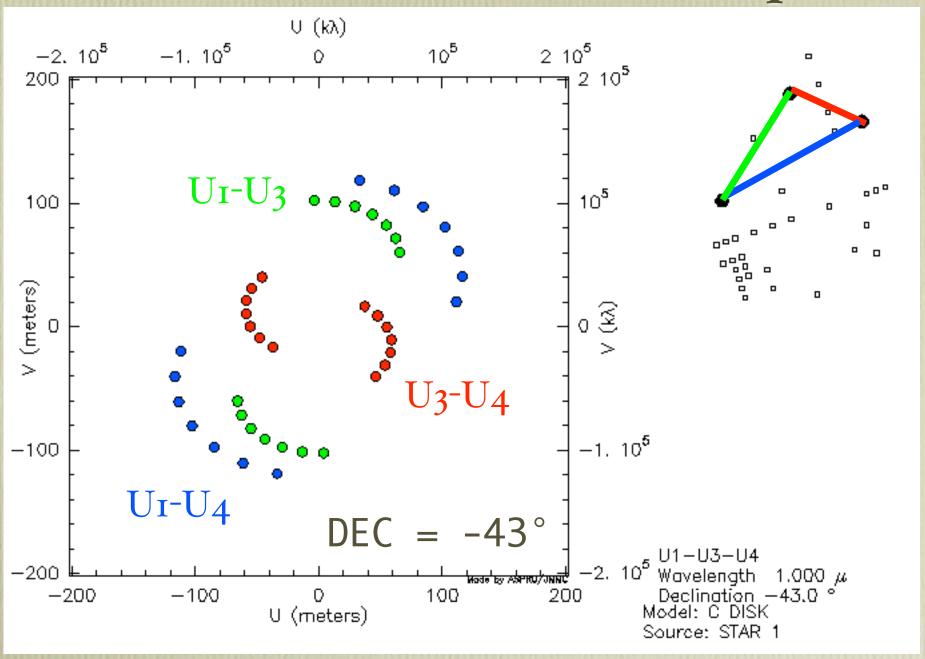


Additional bias: catalogs don't contain AGNs near bright stars



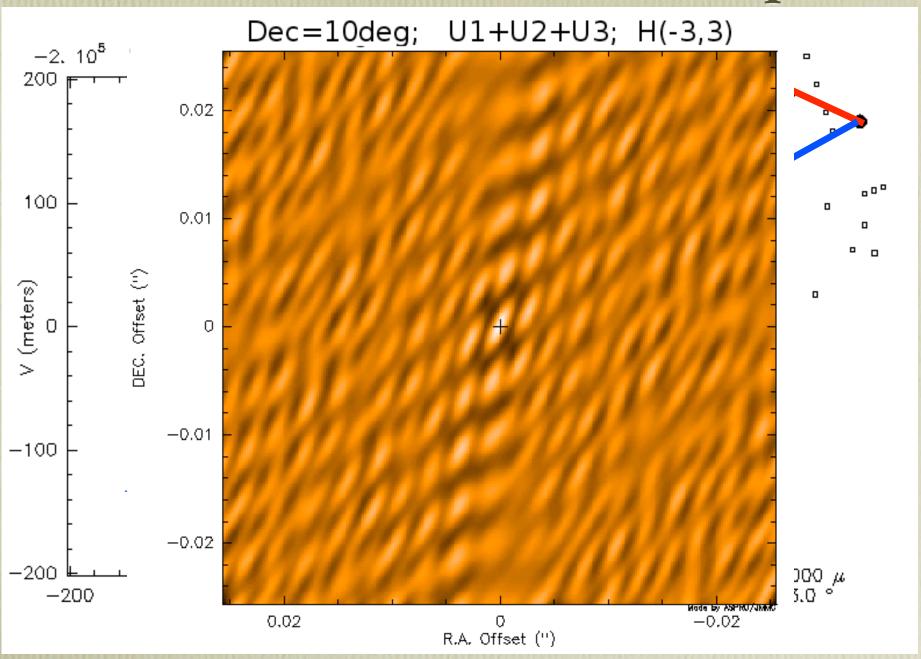
Alpha Centauri V = -0.1

The observational setup



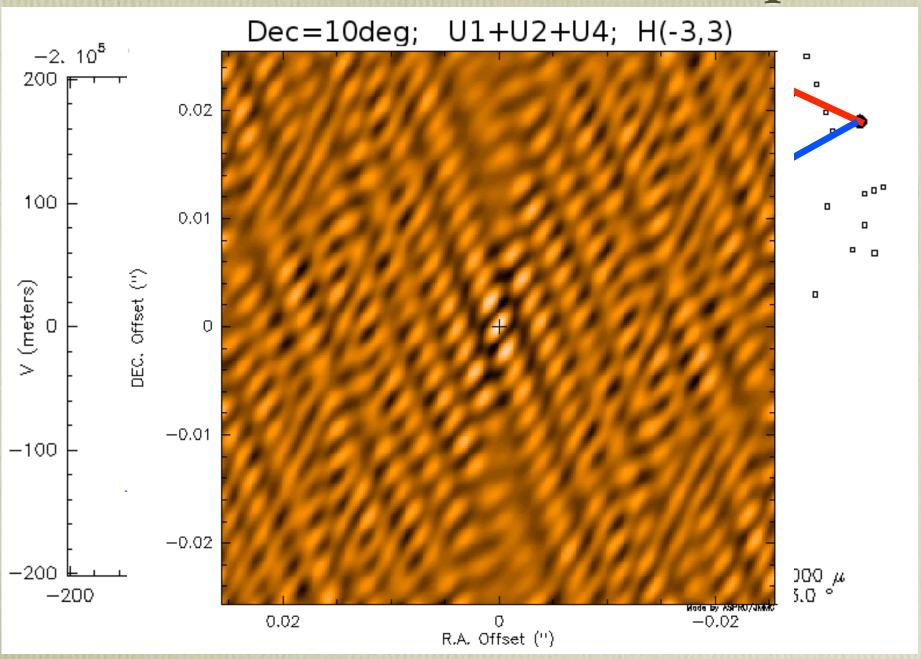
HA = -3...+3 observation, optimized uv-coverage

The observational setup



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The observational setup



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Backup slides

