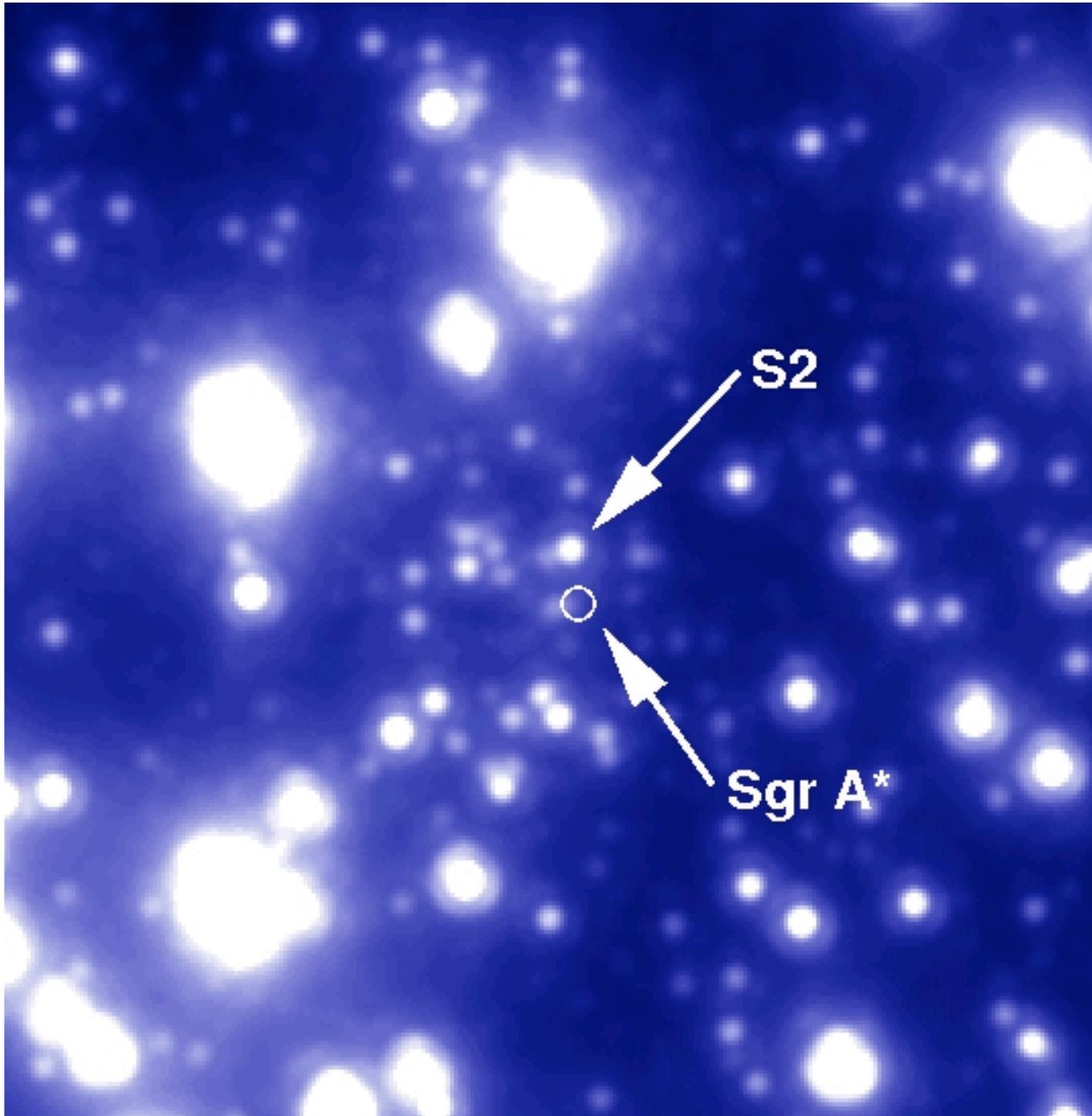
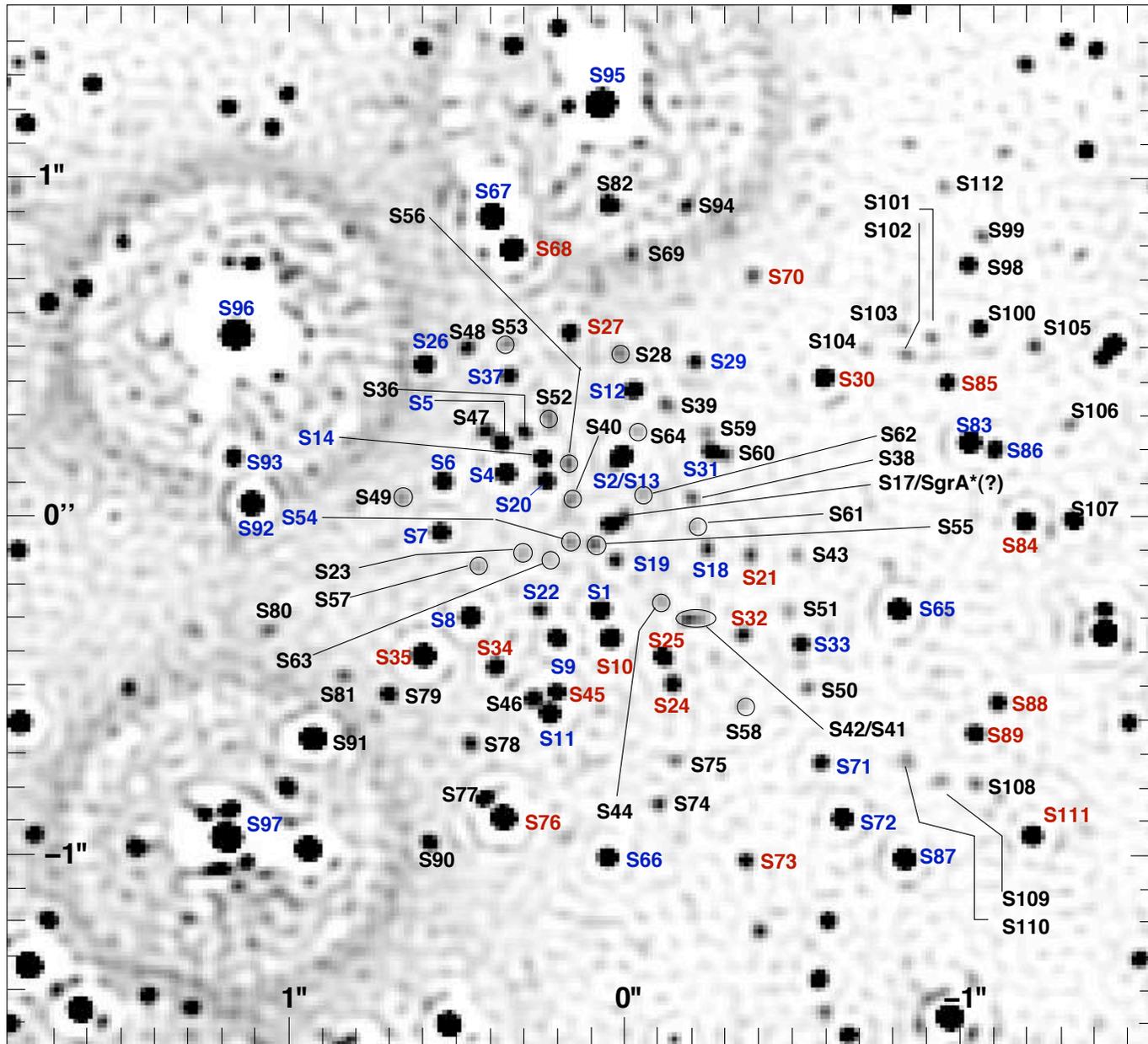


Diffraction-limited Images

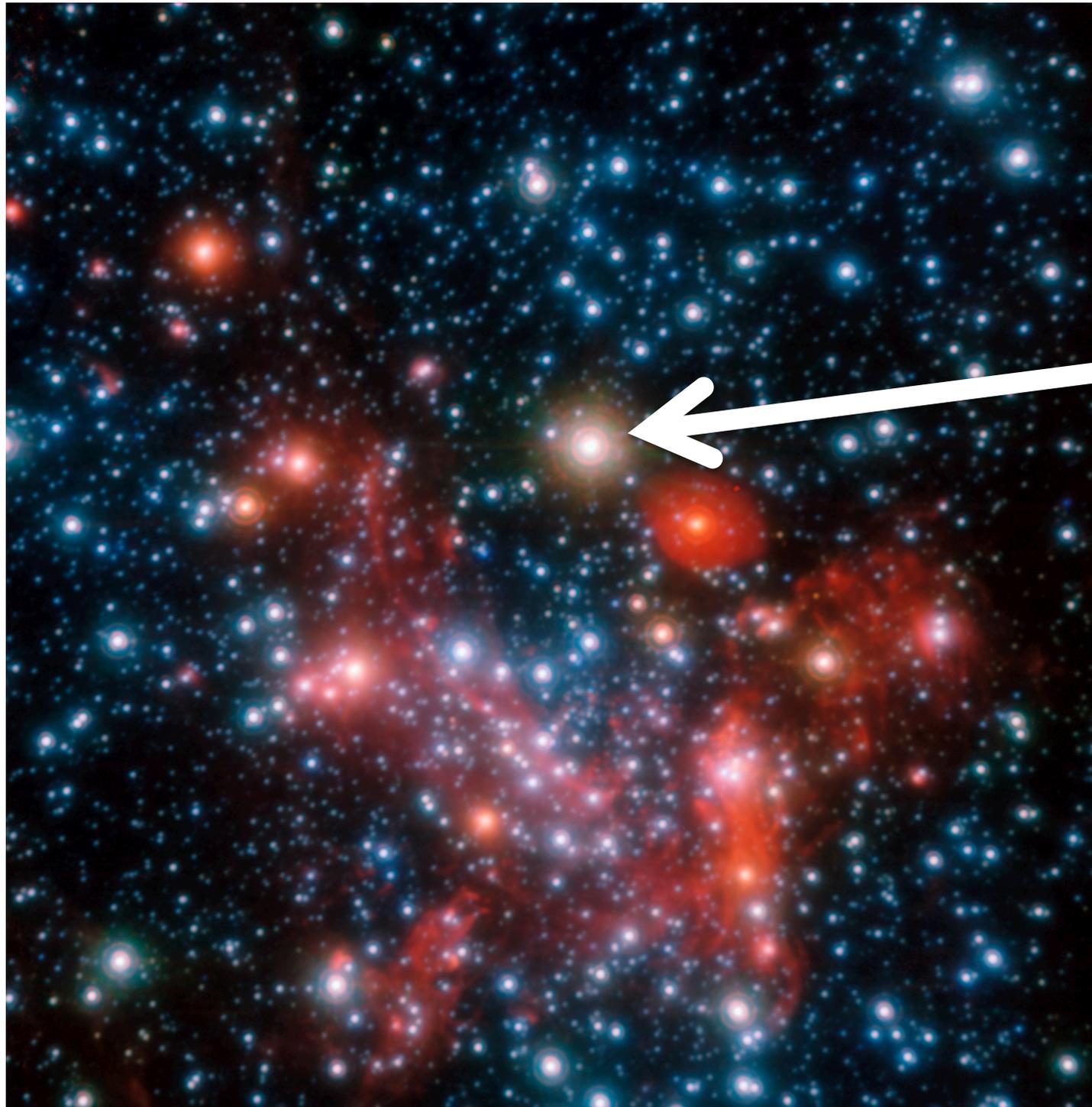


NACO, H, April 2007

100 stars
in 1''



NACO, H
deconvolved

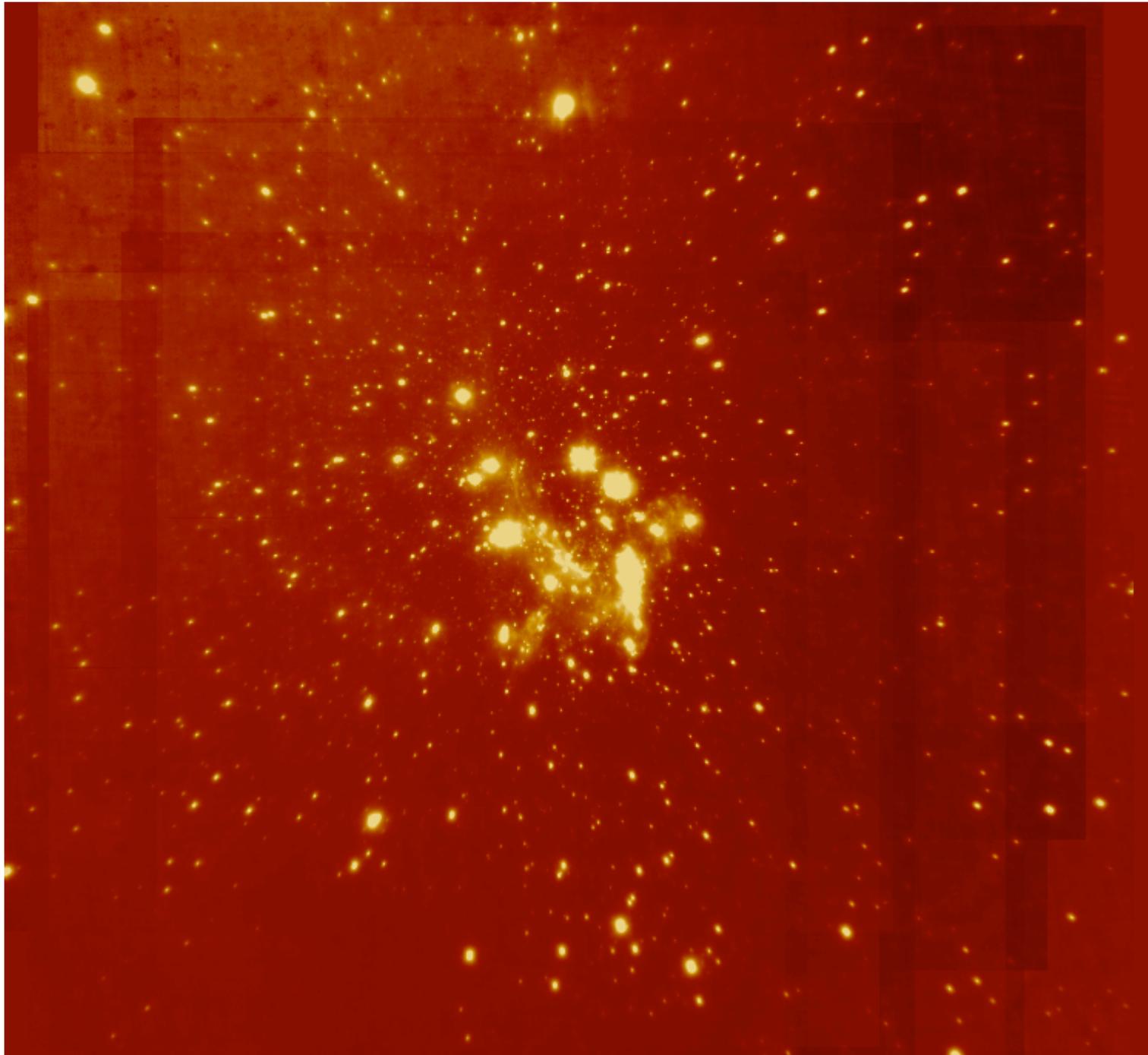


The clue:
NIR WFS

IRS7: $m_K=6.5$

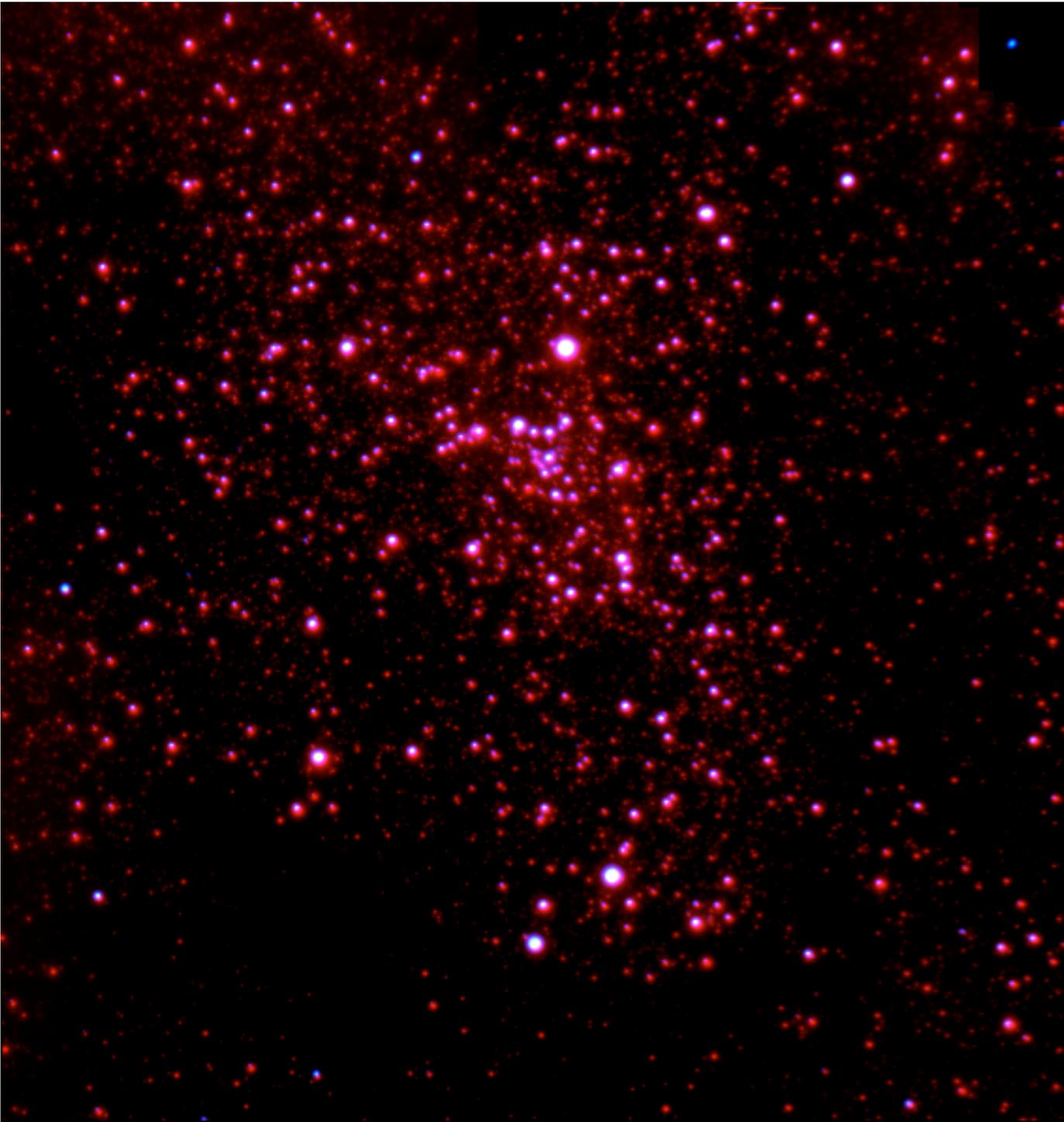
NACO, HKL

Anisoplanatism



NACO, L

MAD:
stable PSF

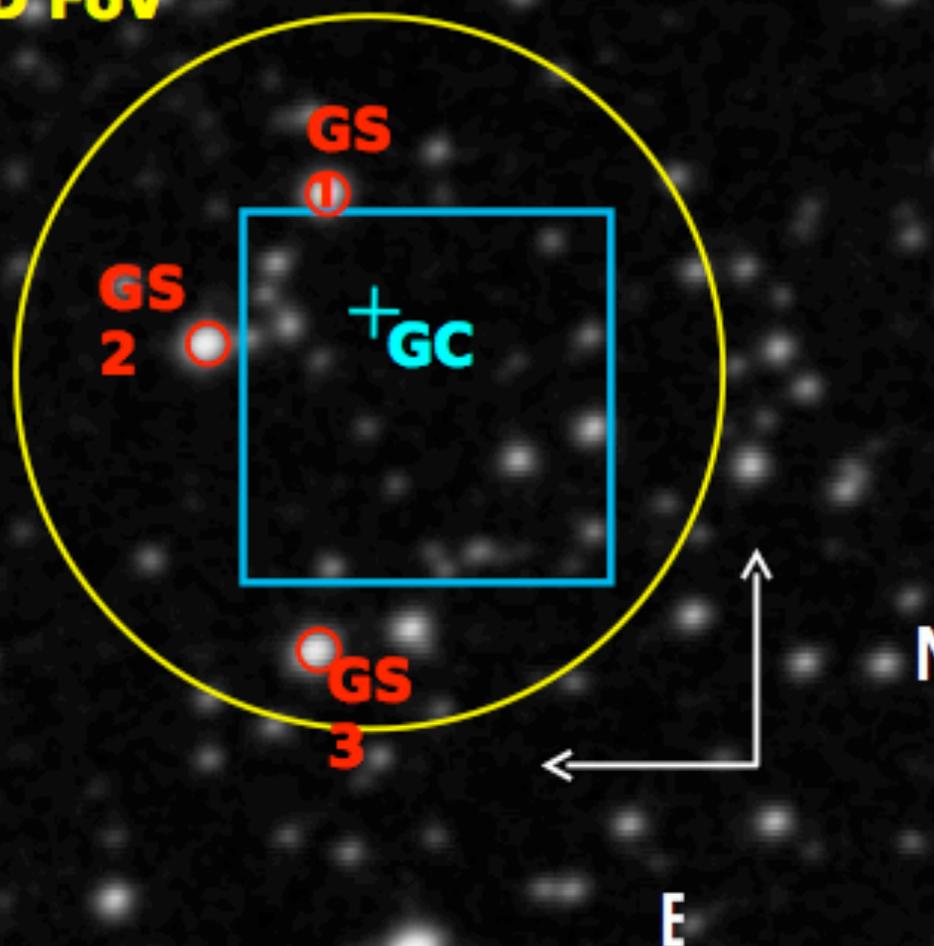


MAD, HK

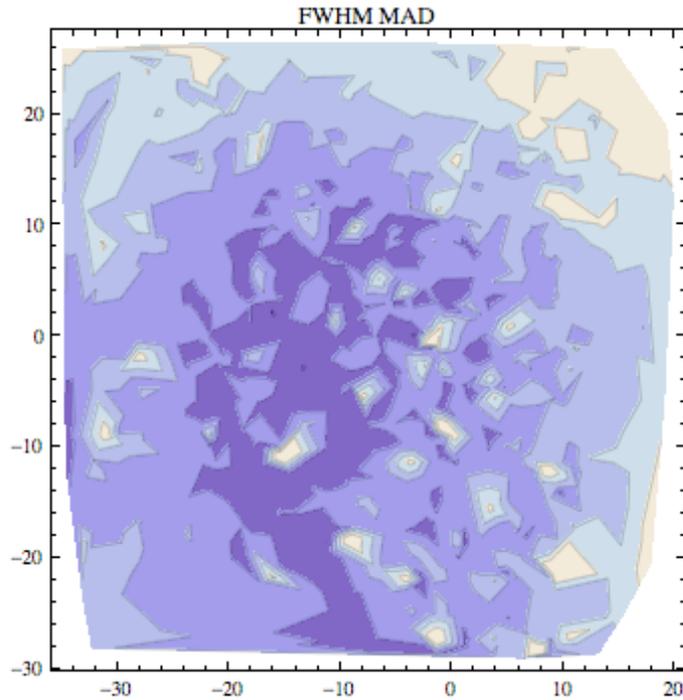
GS1 V=14.6
GS2 V=14.3
GS3 V=14.3

MAD:
VIS-WFS

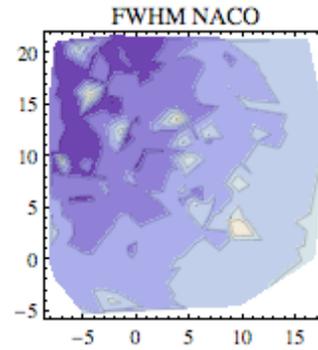
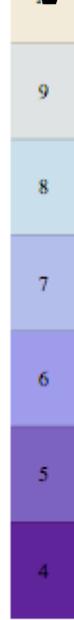
MAD FoV
(2')



DSS

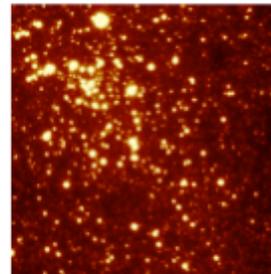
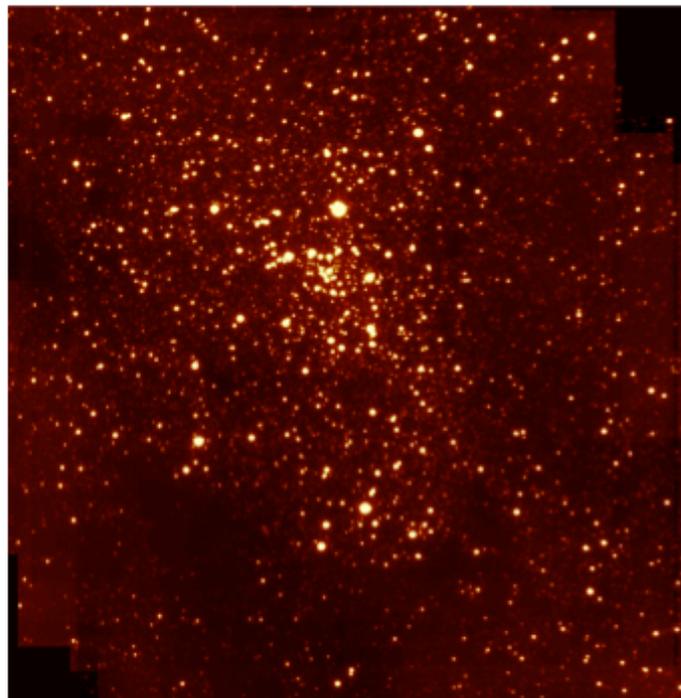


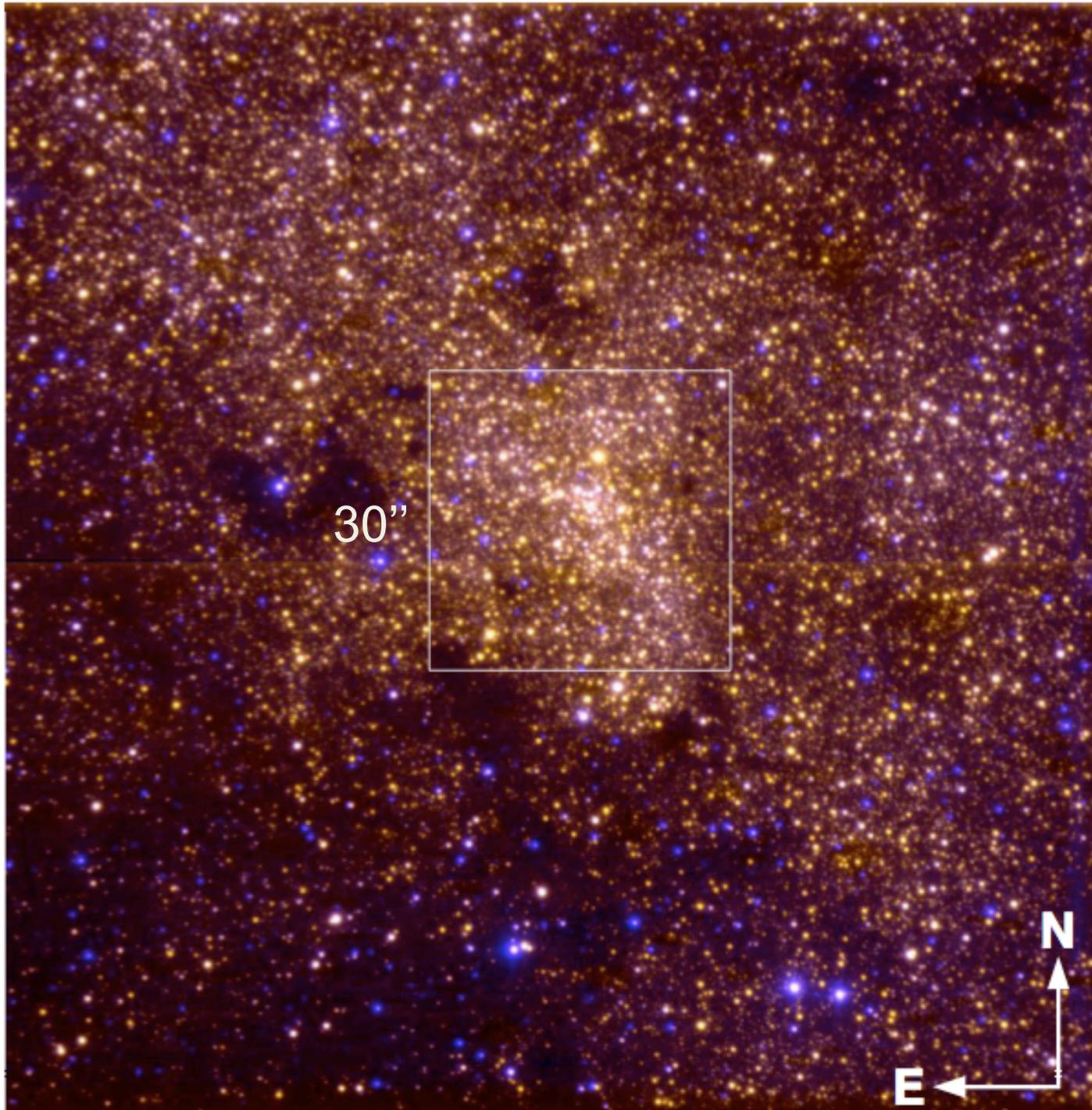
FWHM



Central 10'':
NACO is
doing better

Outside:
MAD = NACO



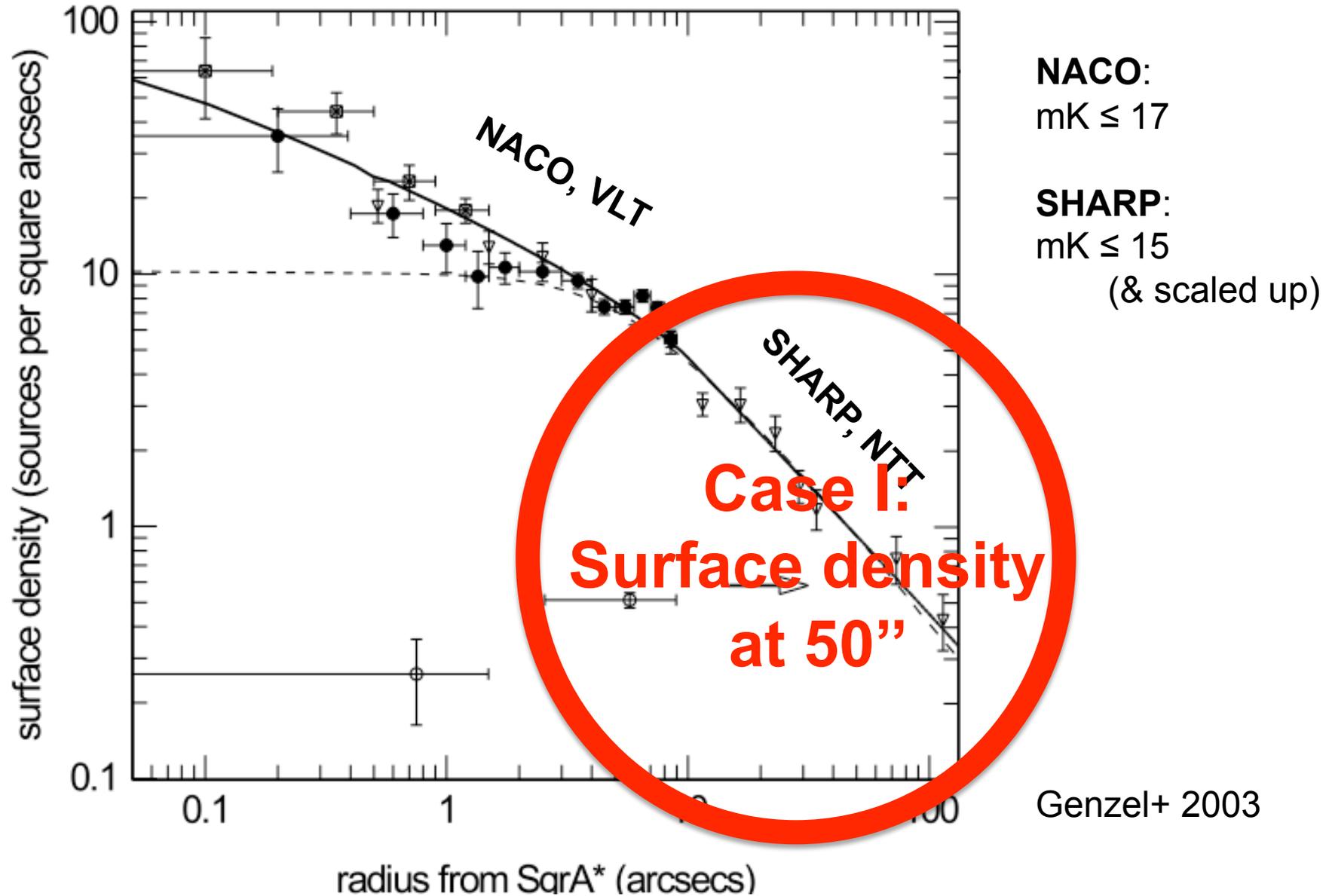


MAD(MAX):

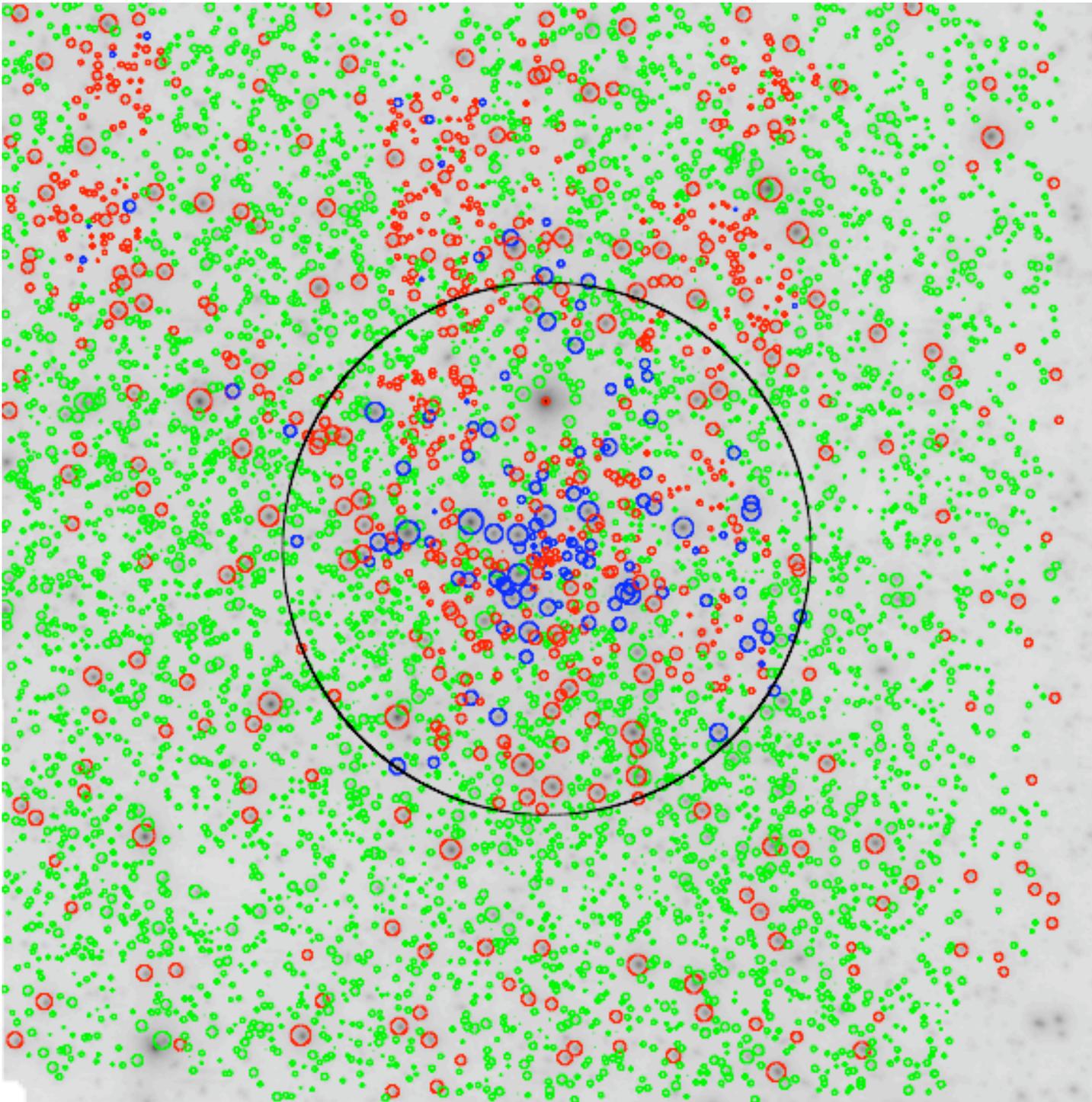
larger scale
structure of
nuclear
cluster

Schödel+ 2007,
ISAAC, JHK

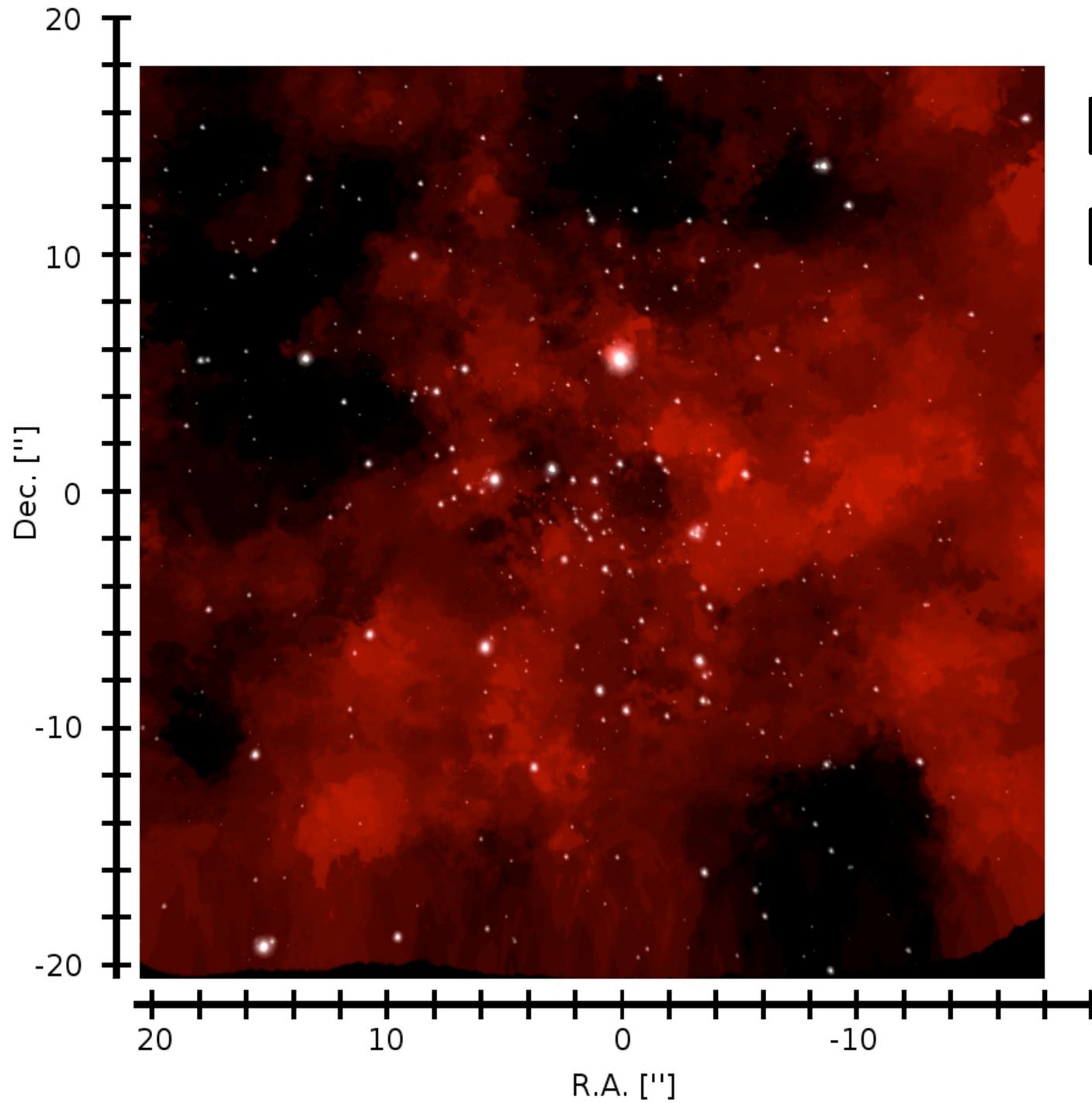
Surface density from stellar counts



H & K: colors & extinction



photometric
classification
from H/K, NACO
(& SINFONI fields)

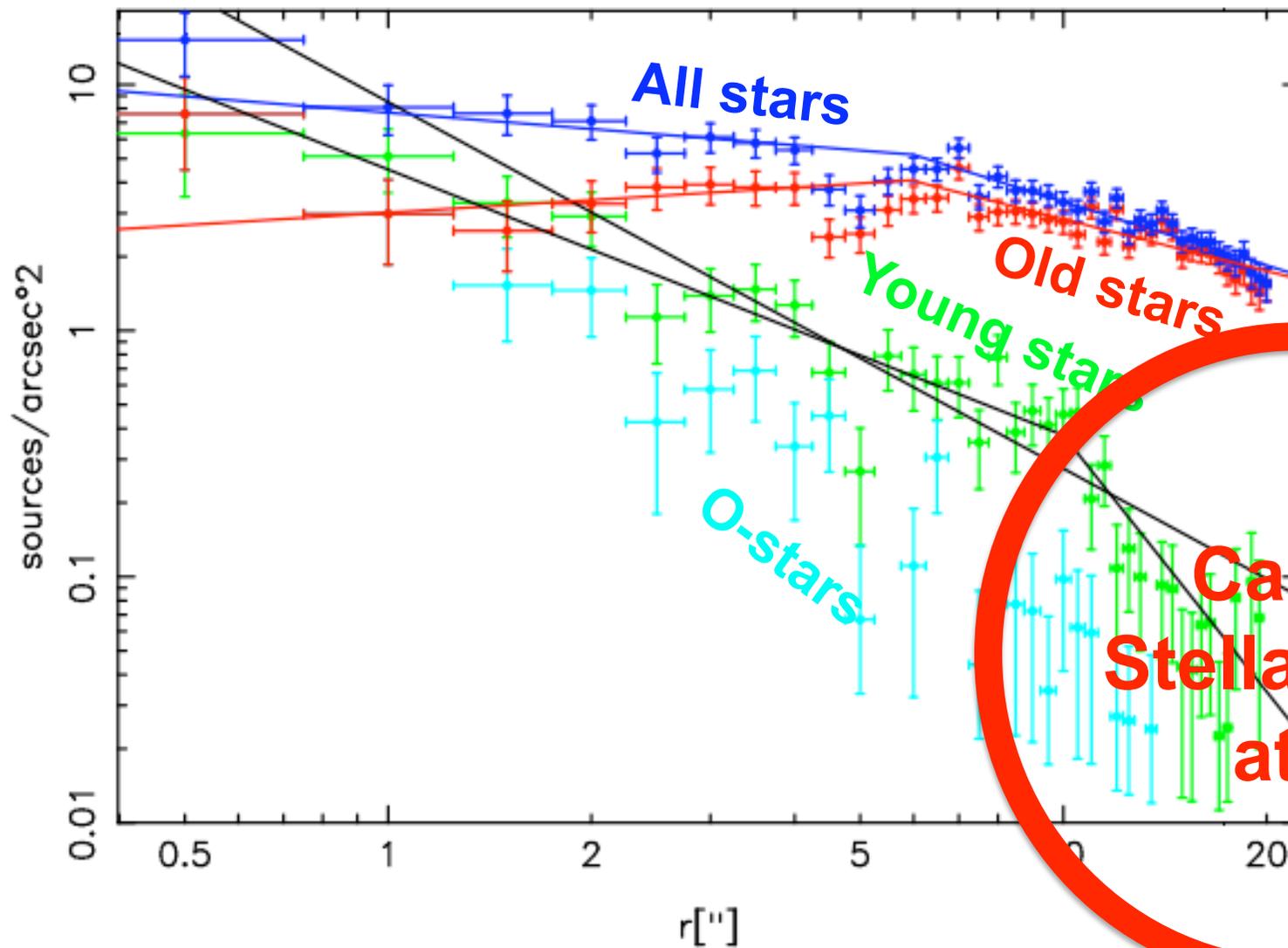


Local Extinction

extinction
in each position:

from median
H-K of 20 next
stars

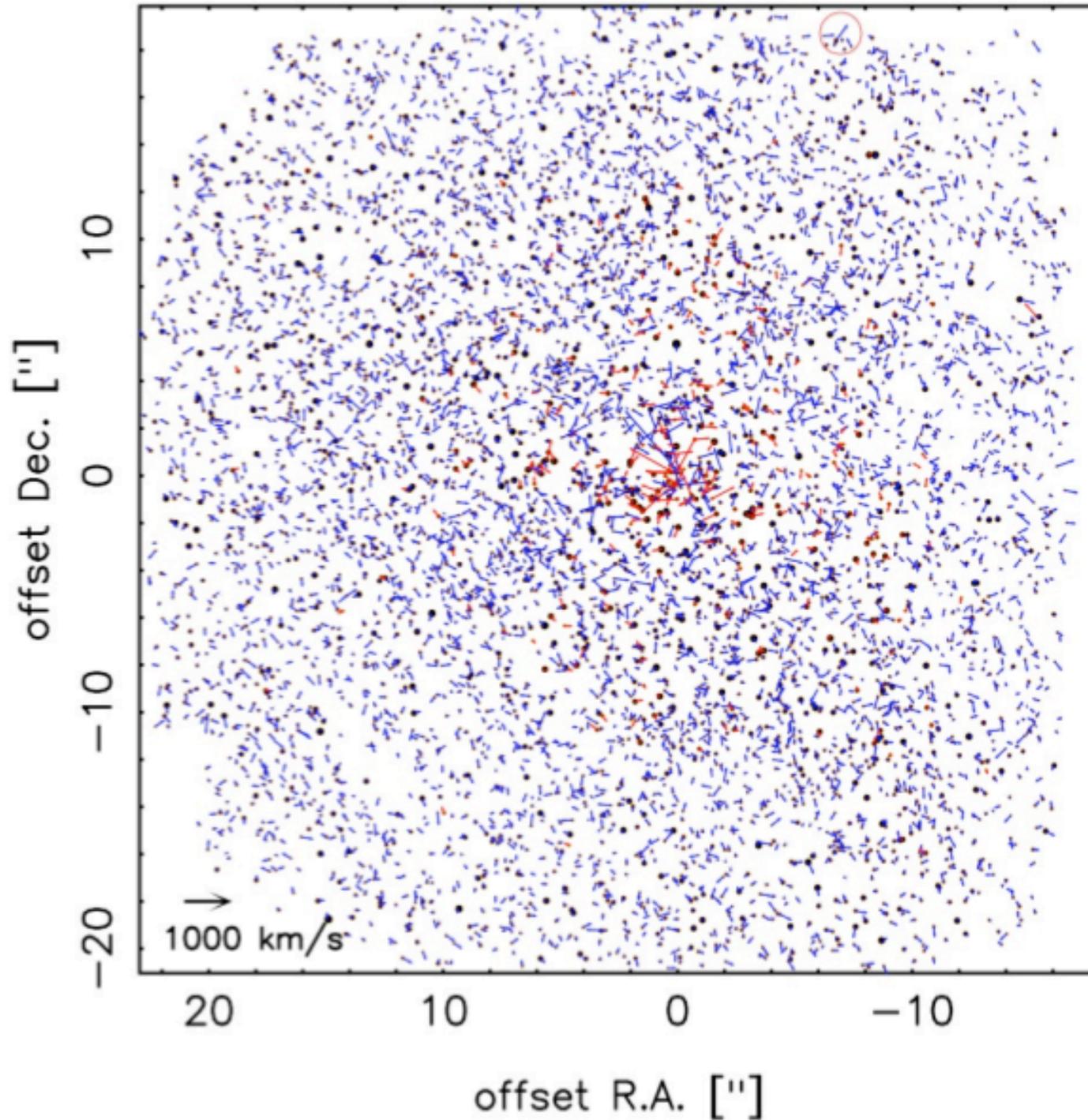
Cluster profile differs for various stellar types



**Case II:
Stellar types
at 50\"'**

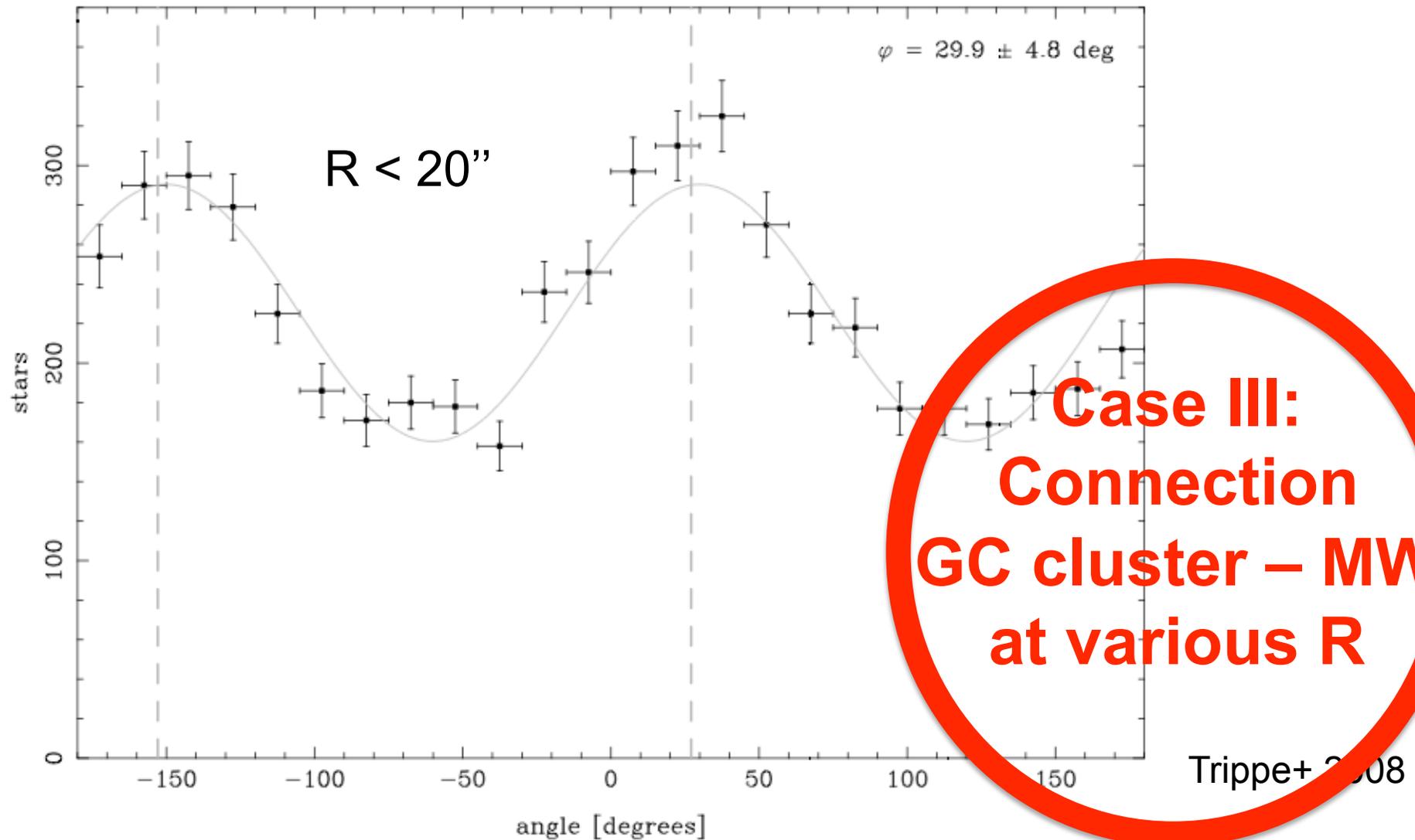
Multiepoch
data:

Proper
motions

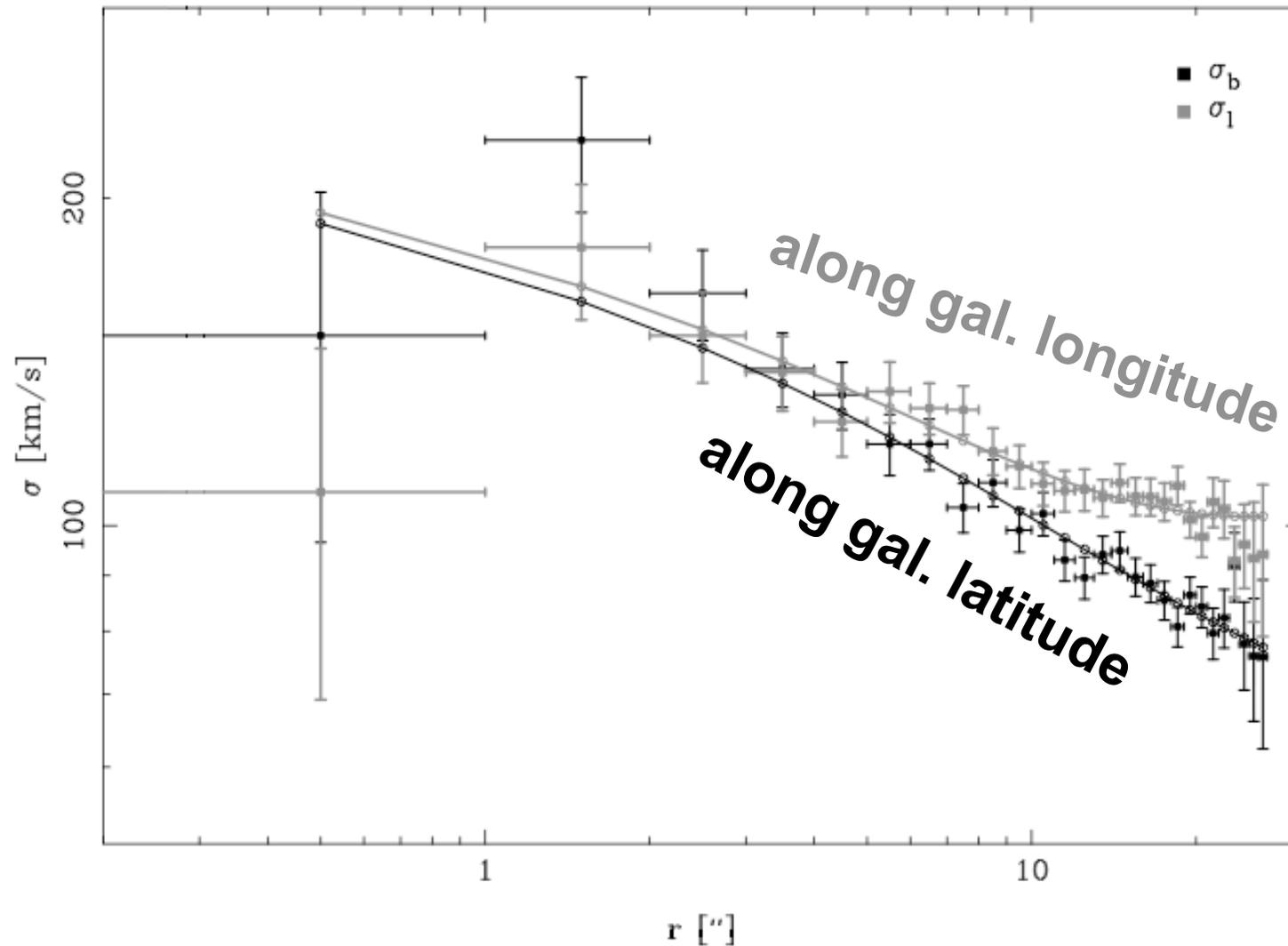


Schödel+ 2009

Global Milky Way rotation pattern visible in proper motions

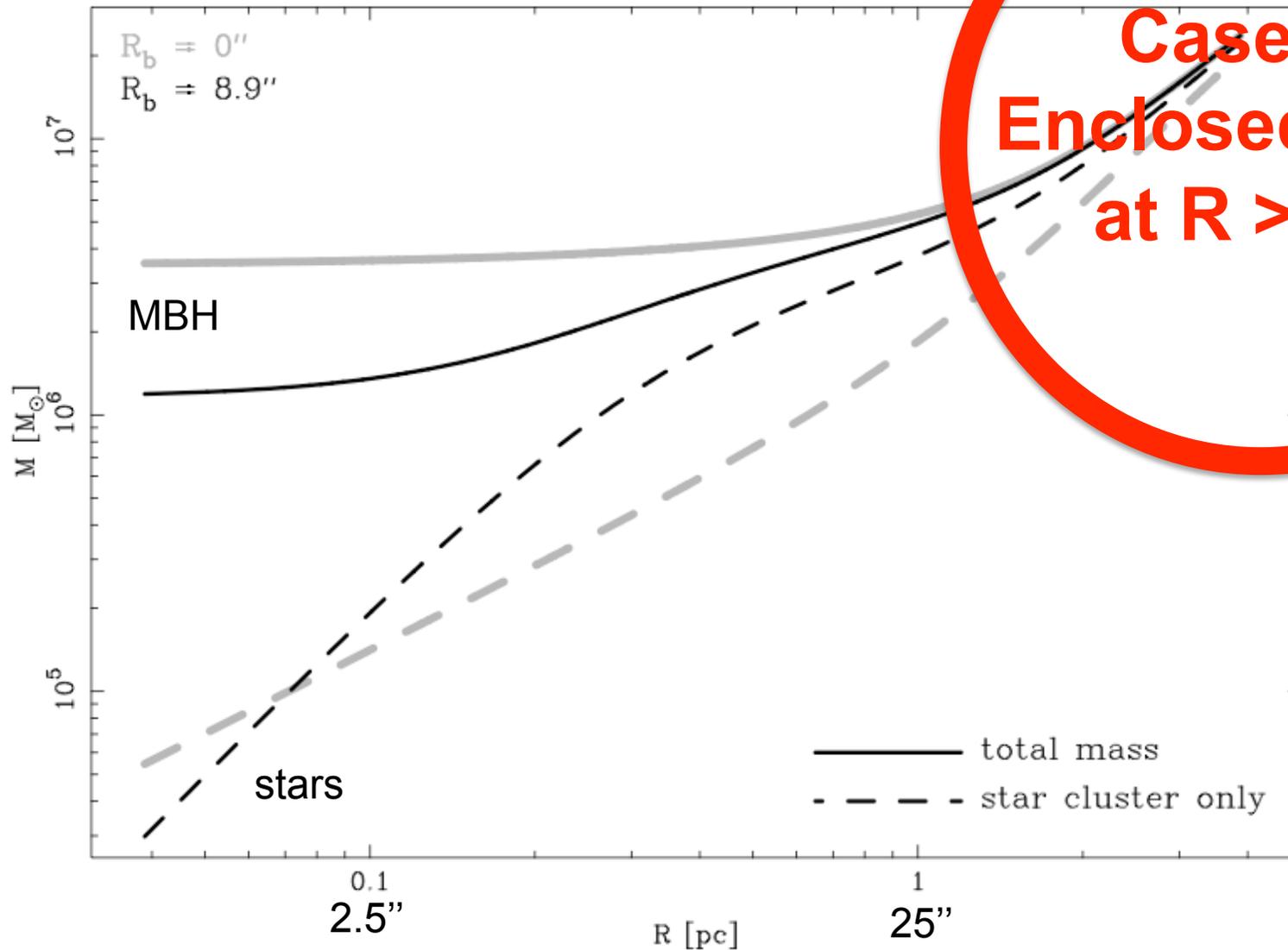


Stellar Dispersion measurements

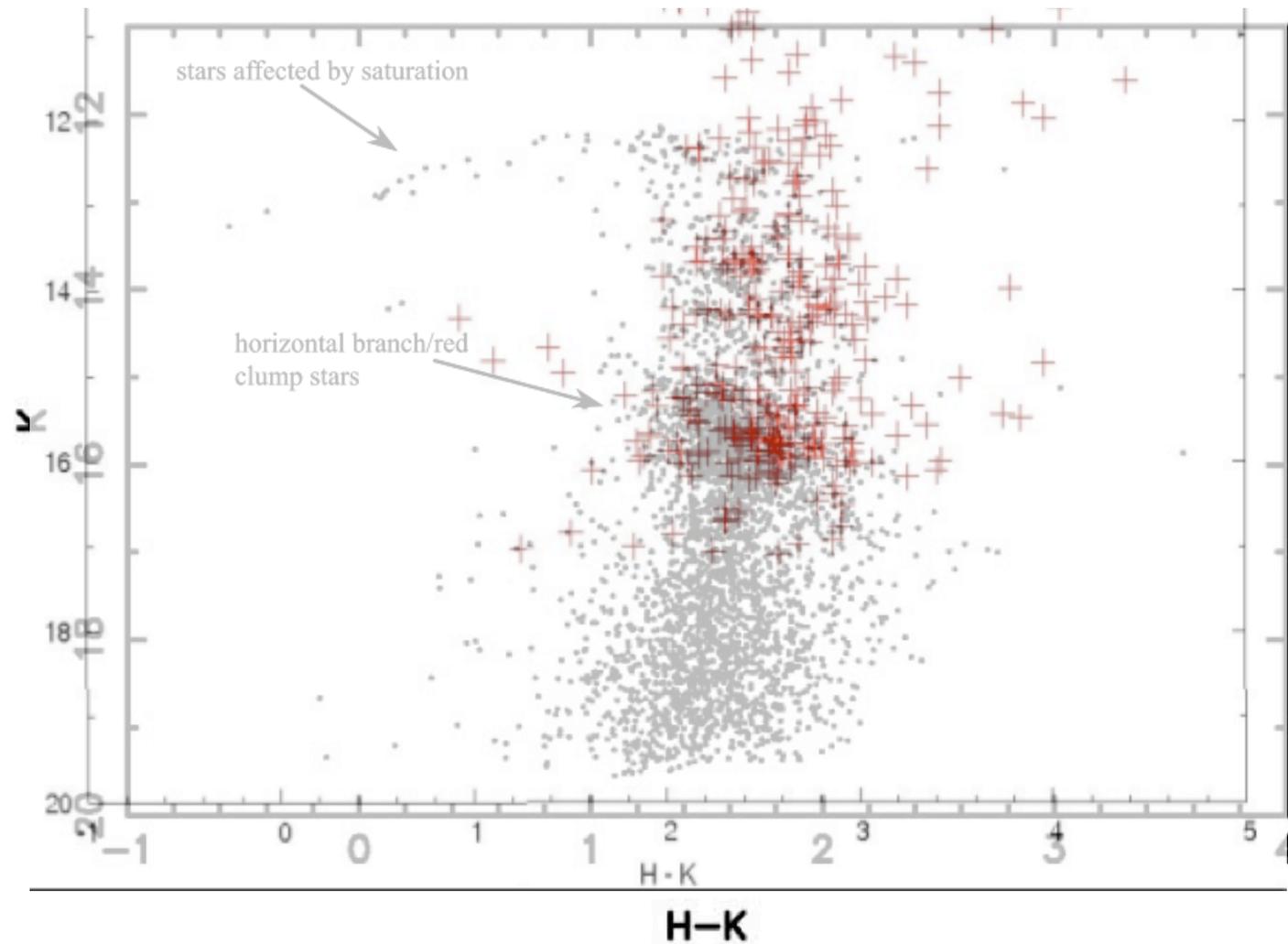


Trippe+ 2008

Enclosed mass as function of R



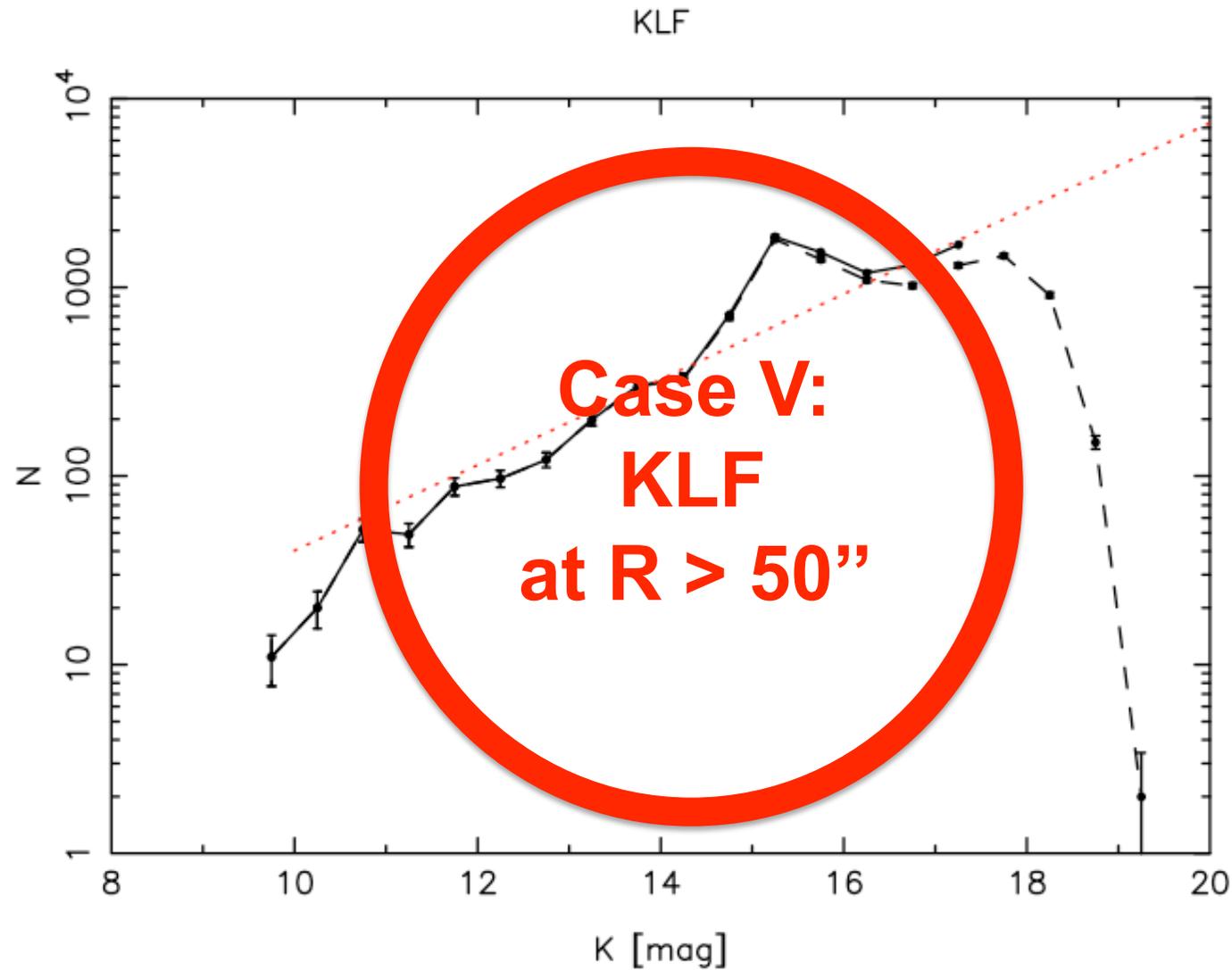
MAD data was not yet deep enough



MAD

Genzel+ 2003

Measure KLF



KLF changes
with radius

Schödel+ 2007

Summary I:

MADMAX interesting for larger scale structure of GC cluster

- **I: Cluster Profile at larger radii**
- **II: Stellar types as function of radius**
- **III: Connection GC cluster and MW**
- **IV: Enclosed mass at larger radii**
- **V: KLF at larger radii**

Summary II

**The science
close to the Black Hole needs
NACO
(diffraction limited, NIR-WFS)**