

# Terzan 5, a fossil relic of the Galactic Bulge

V. Gotta<sup>1</sup>, F. Mauro<sup>1</sup>, C. Moni Bidin<sup>1</sup>, D. Geisler<sup>2</sup>, F. Ferraro<sup>3</sup>

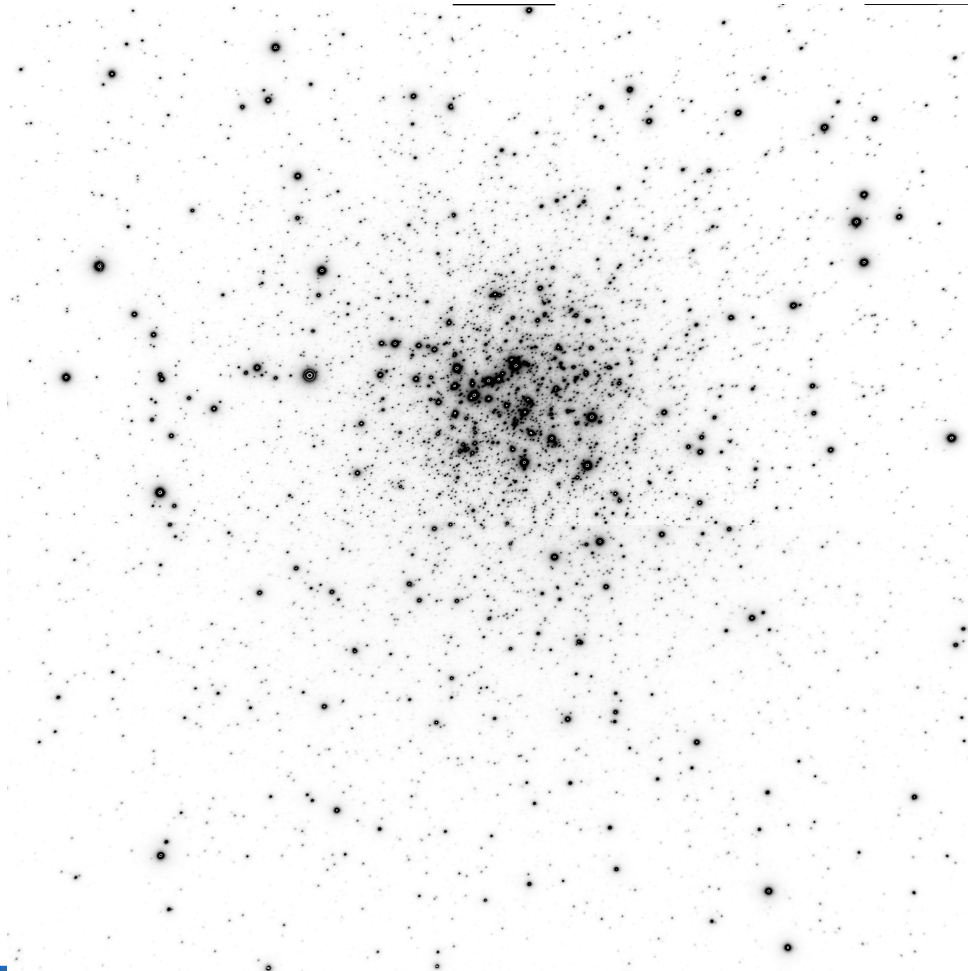
<sup>1</sup>Instituto de Astronomía, Universidad Católica del Norte, Antofagasta, Chile.

<sup>2</sup>Departamento de Astronomía, Universidad de Concepción, Chile.

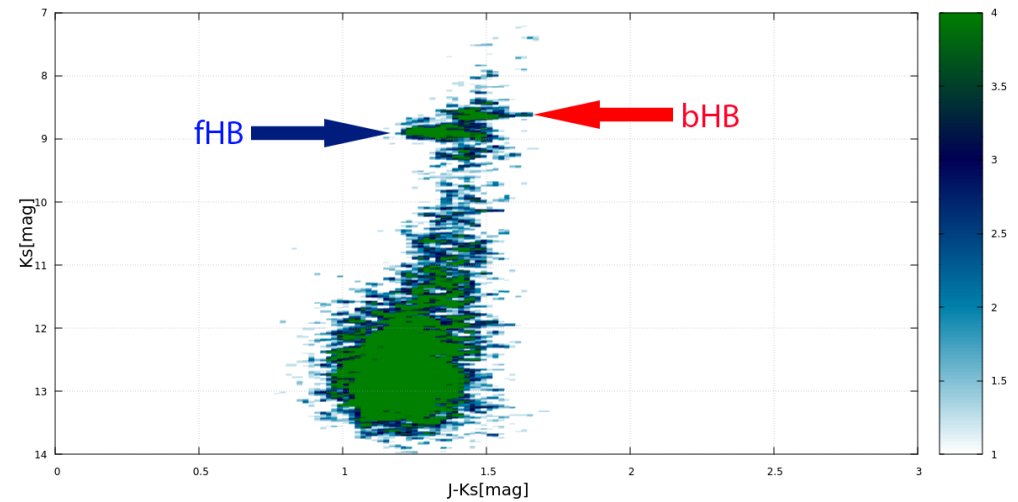
<sup>3</sup>University of Bologna, Italy.



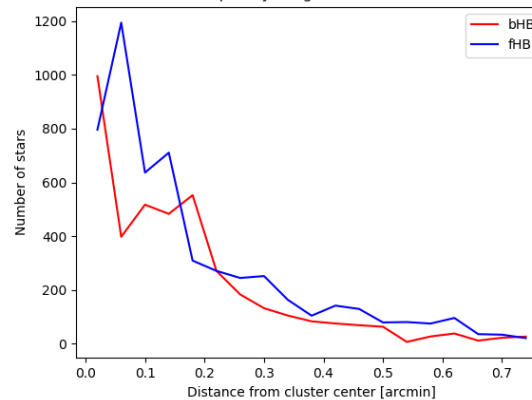
GBX2018



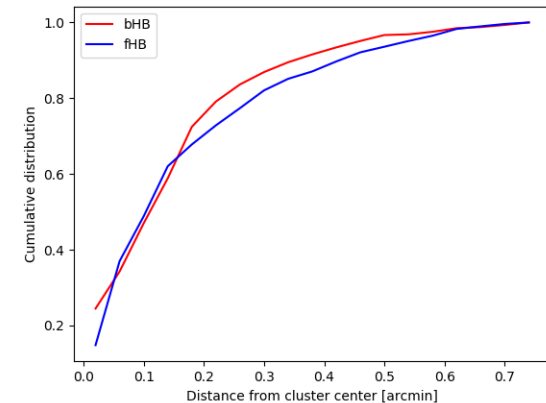
Observations with GeMS/GSAOI in Ks and J bands.



Frequency Diagram of two HBs



Cumulative radial distribution of two HBs



2.1 Kpc away from the Galactic center  
( $l=3.84^\circ$ ,  $b=1.69^\circ$ )

$E(B-V)=2.38[\text{mag}]$

$\Delta E(B-V)\approx 0.7[\text{mag}]$

Pixel scale=0.020"/pxl

FWHM $\approx 5.5\text{-}6\text{pxl}\approx 0.1''$

PRELIMINARY RESULTS