



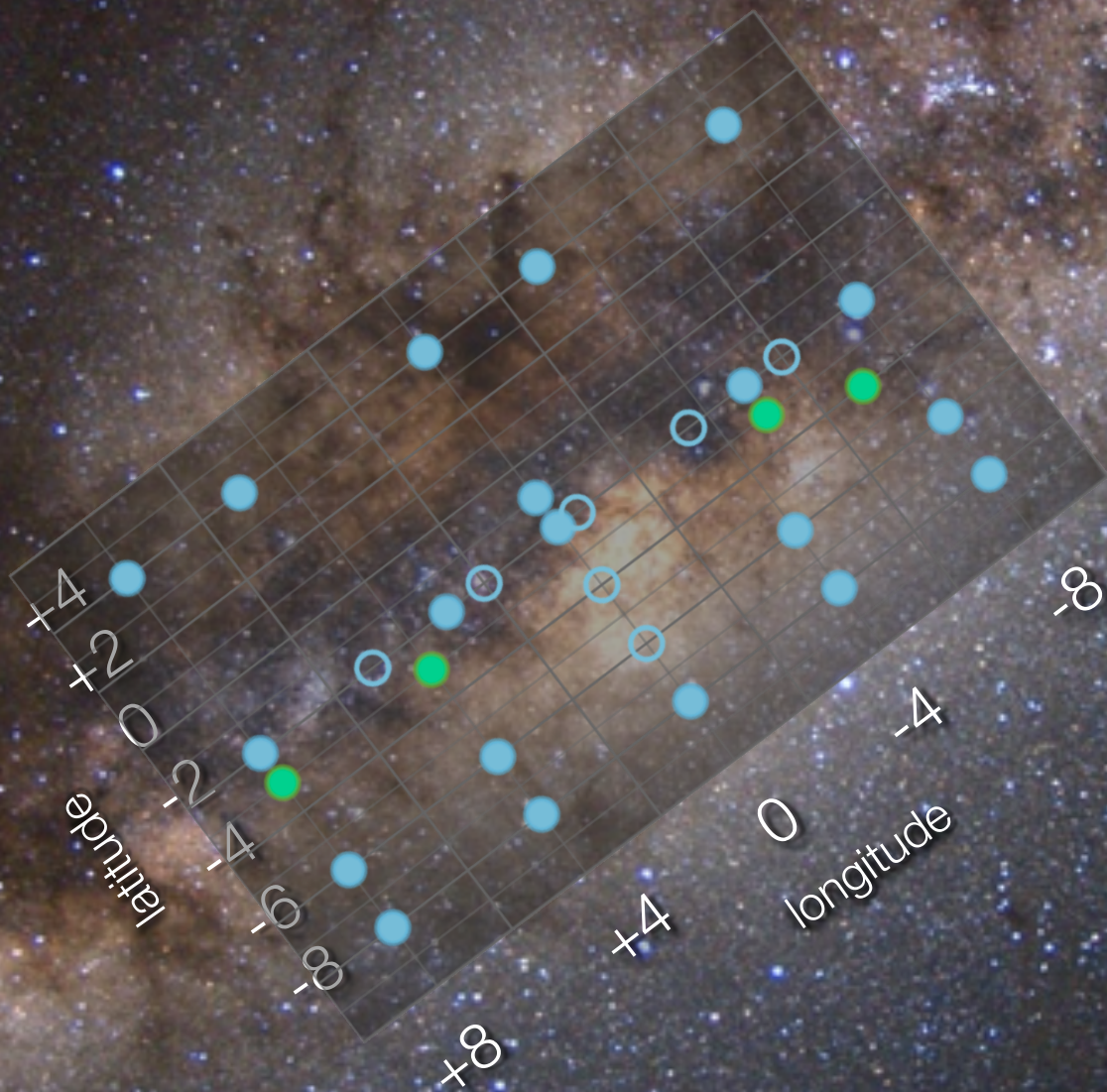
GIBS: The Giraffe Inner Bulge Survey

Elena Valenti
ESO

The GIBS Team

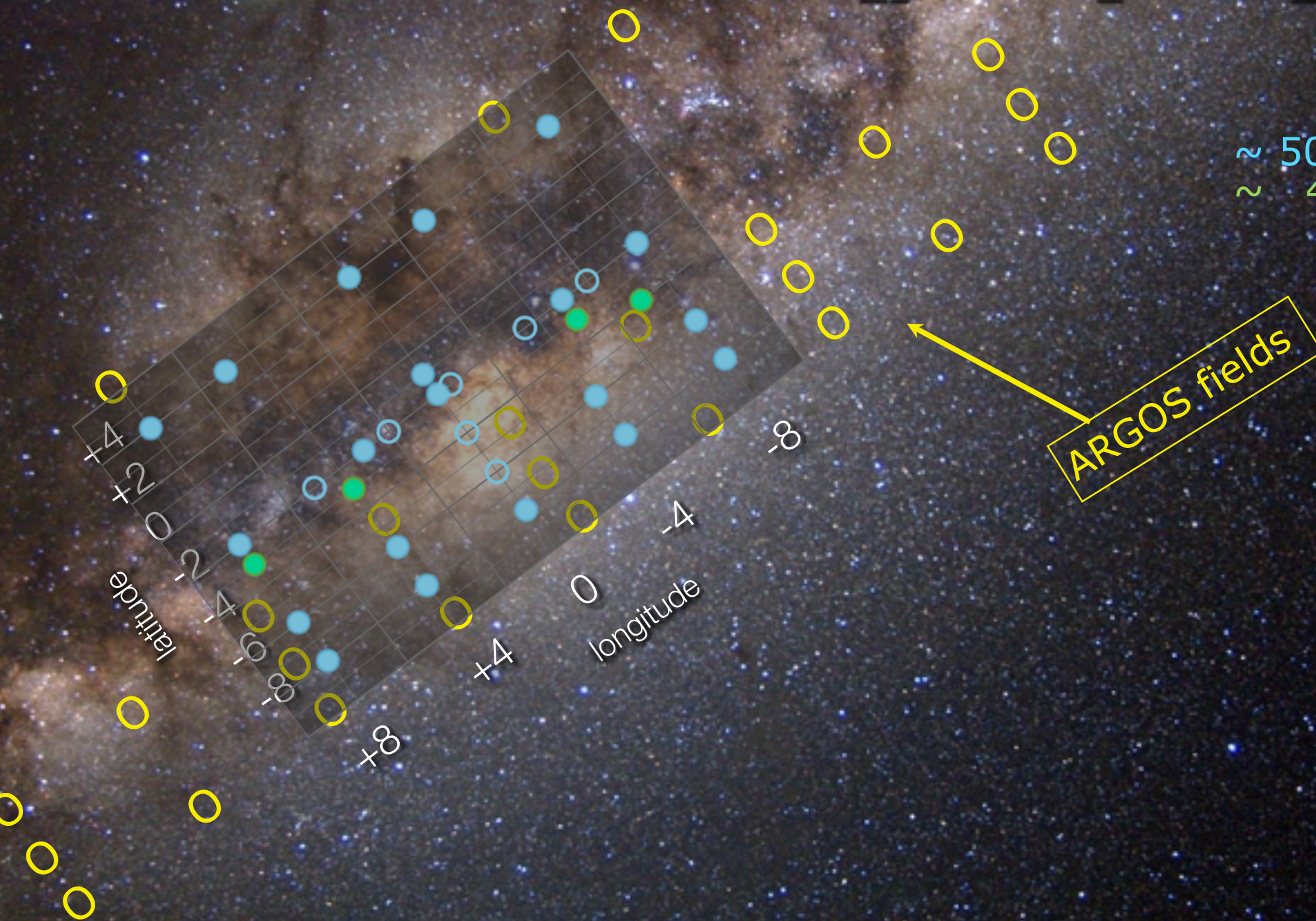
The Giraffe Inner Bulge Survey

~ 5000 stars on CaT
~ 450 stars at $R \sim 22,000$

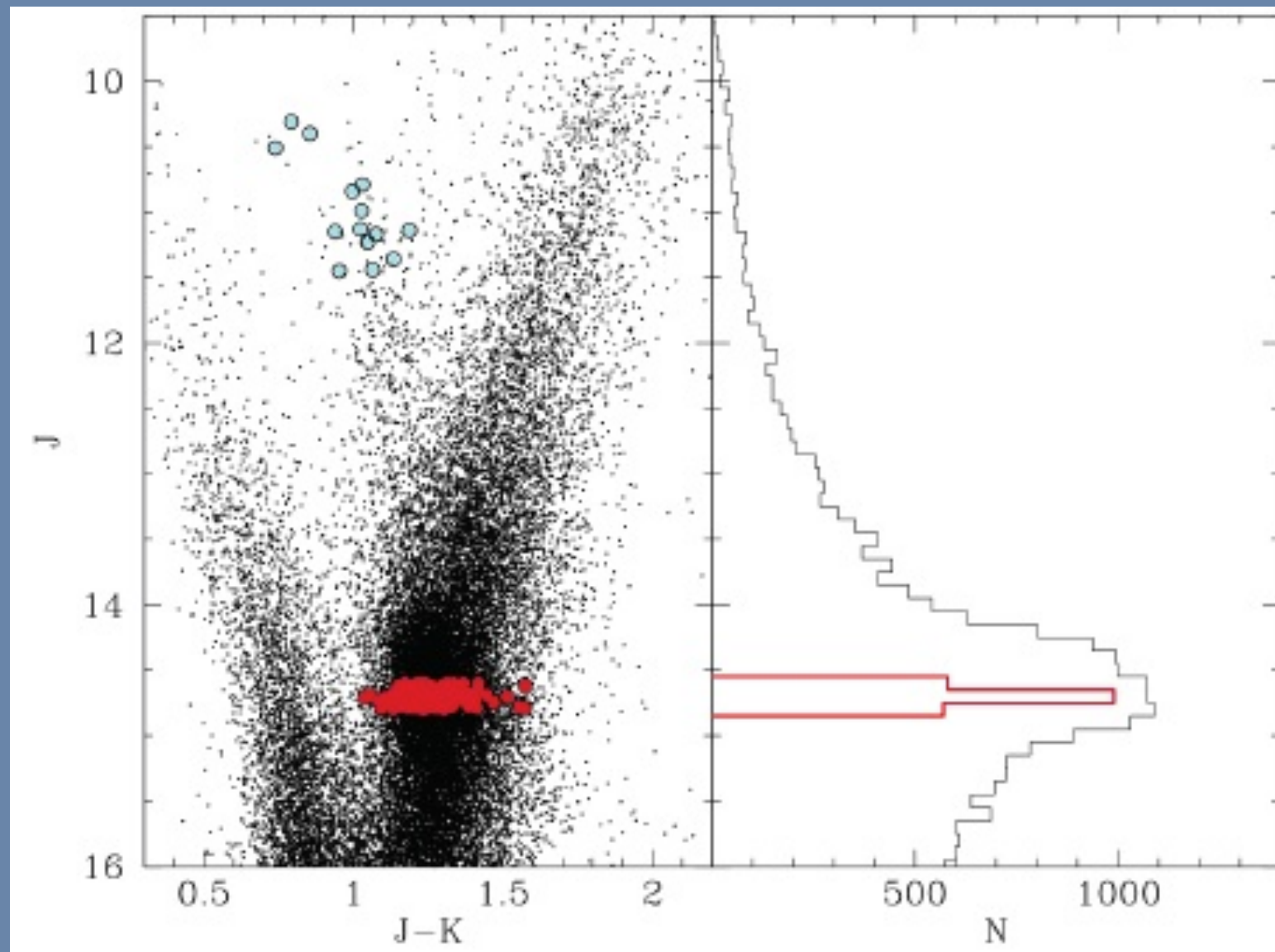


The Giraffe Inner Bulge Survey

~ 5000 stars on CaT
~ 450 stars at $R \sim 22,000$



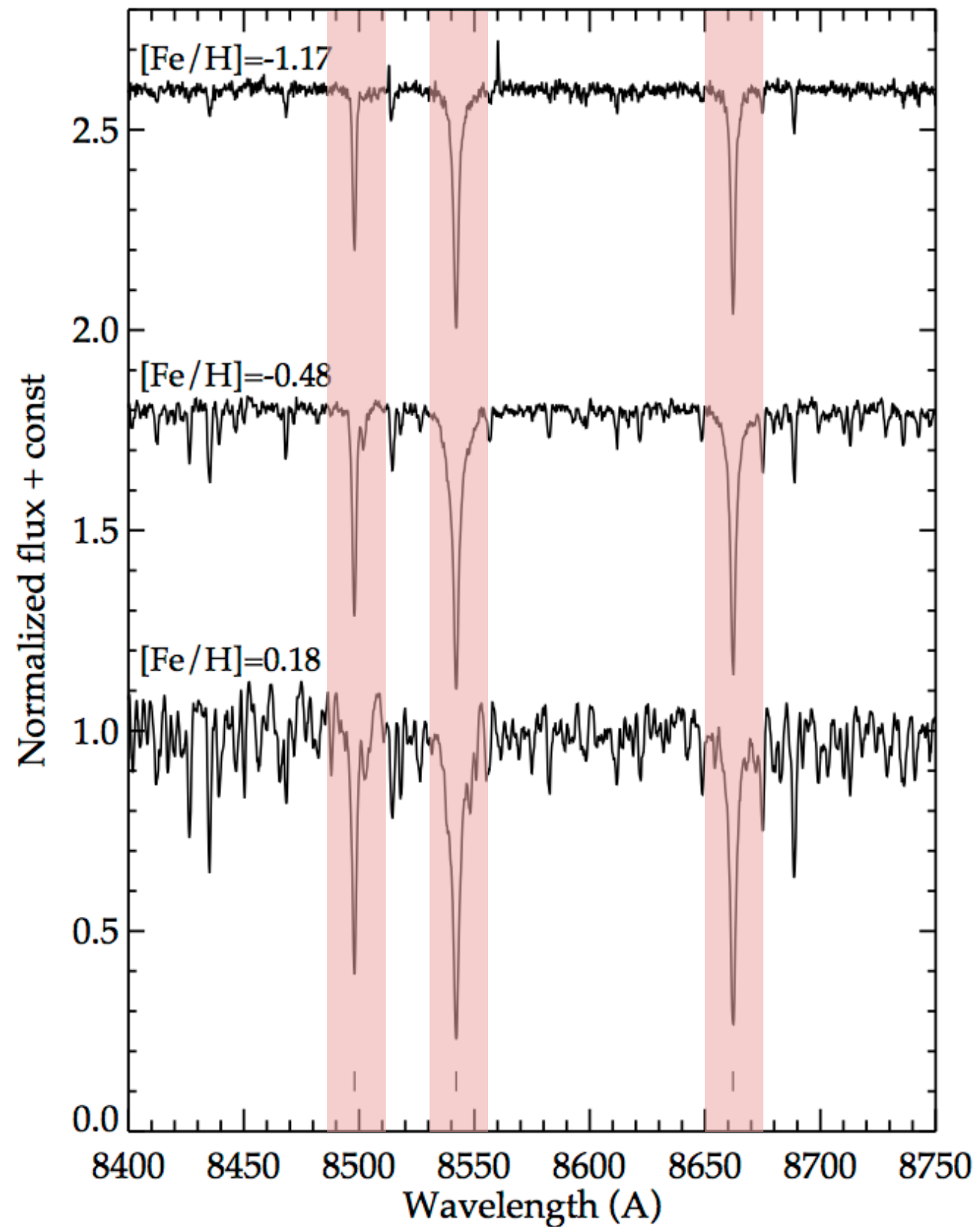
GIBS: Targets Selection and Observation



**27 fields @ $R \sim 6500$
LR8 (8206 – 9400)Å
~215 ★ per field
S/N ~ 50**

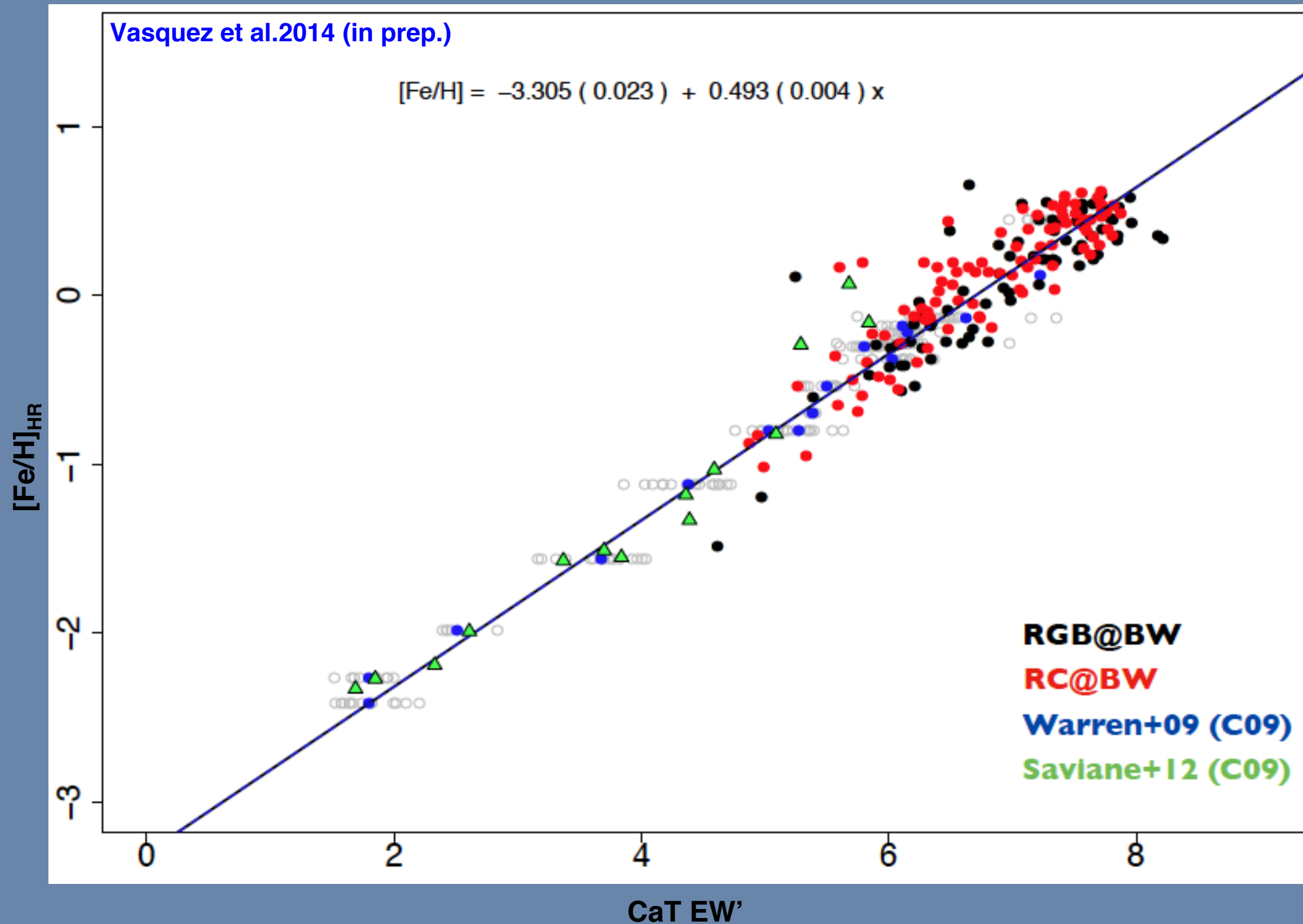
**4 fields @ $R \sim 22500$
HR13 (6120 – 6405)Å
~450 ★ per field
S/N ~ 100**

~ 5000 RC stars observed in **CaT**



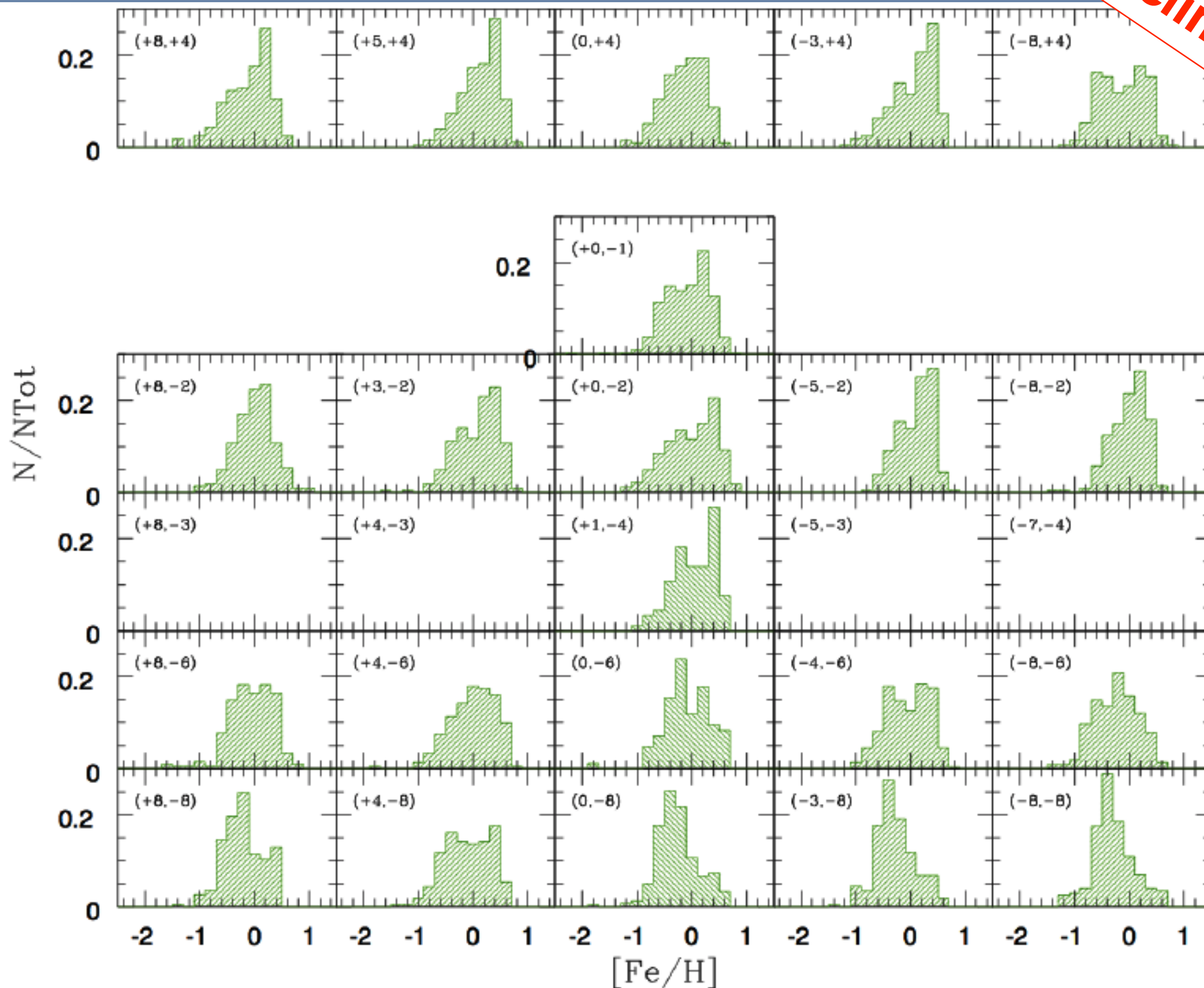
GIBS: A new Calibration of CaT EWs versus [Fe/H]

obtained for bulge K giants in Baade's Window



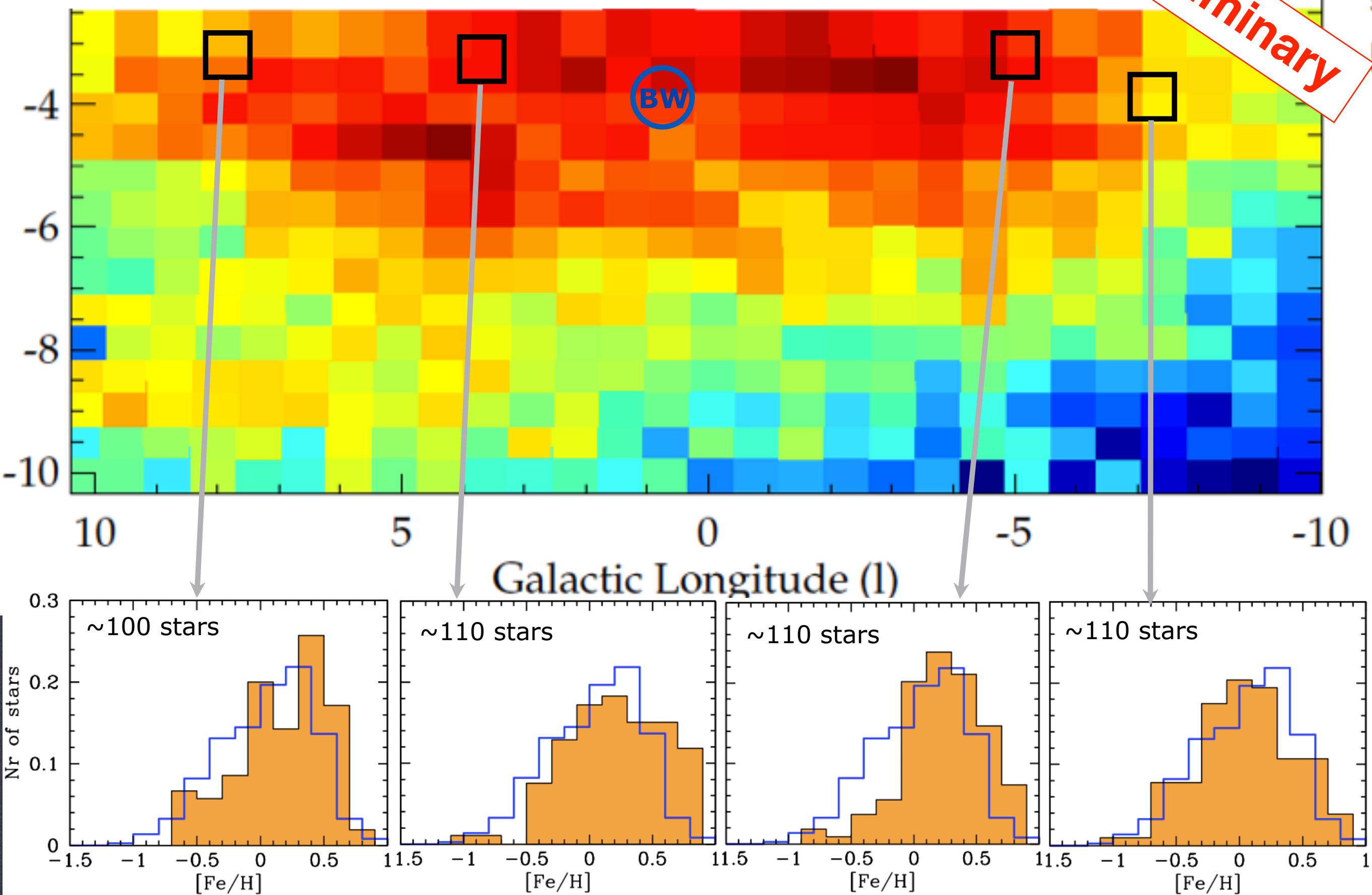
Metallicity map of the Bulge

preliminary

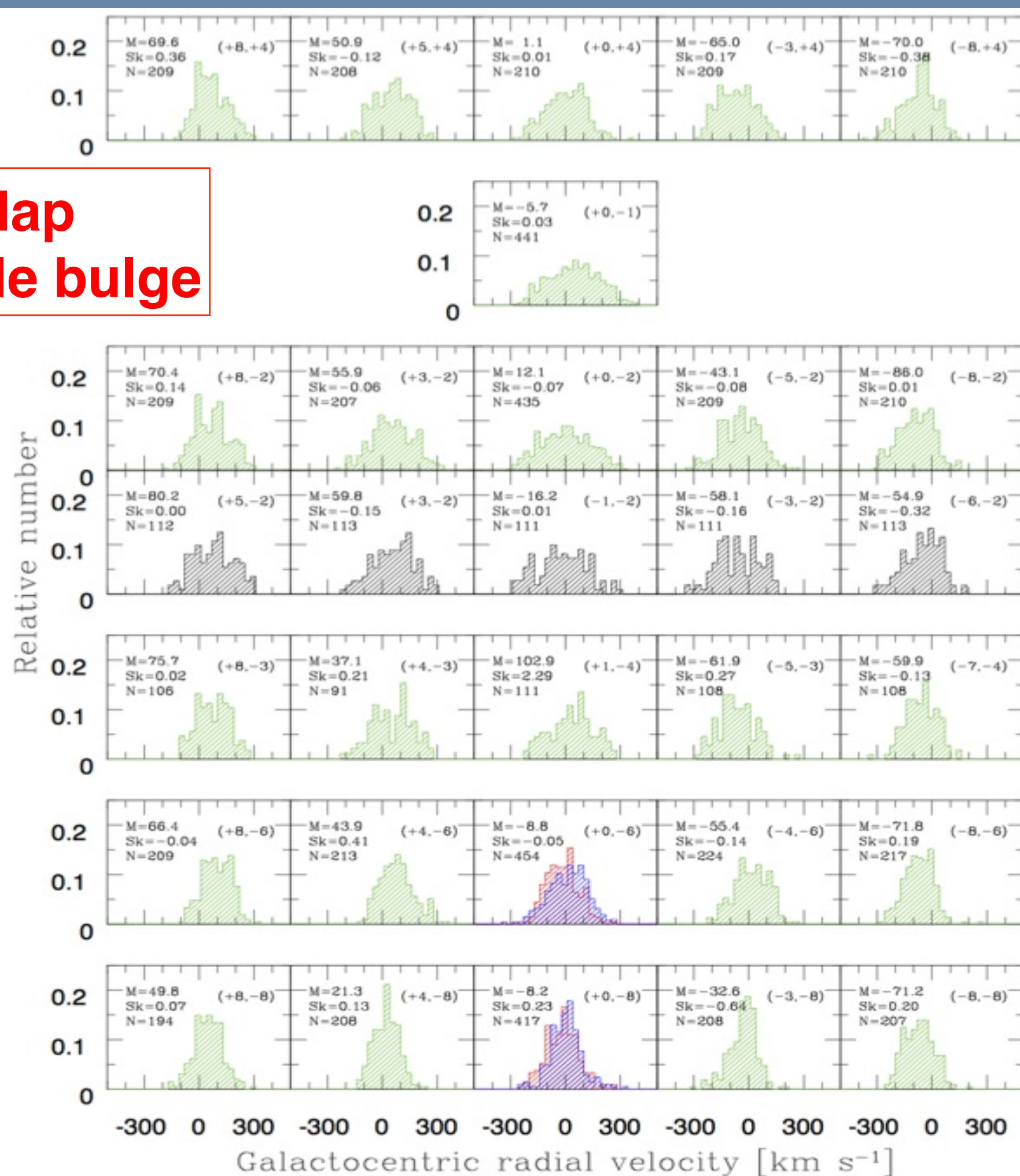


GIBS: The **High Resolution** spectra at $b \sim -3^\circ$

preliminary

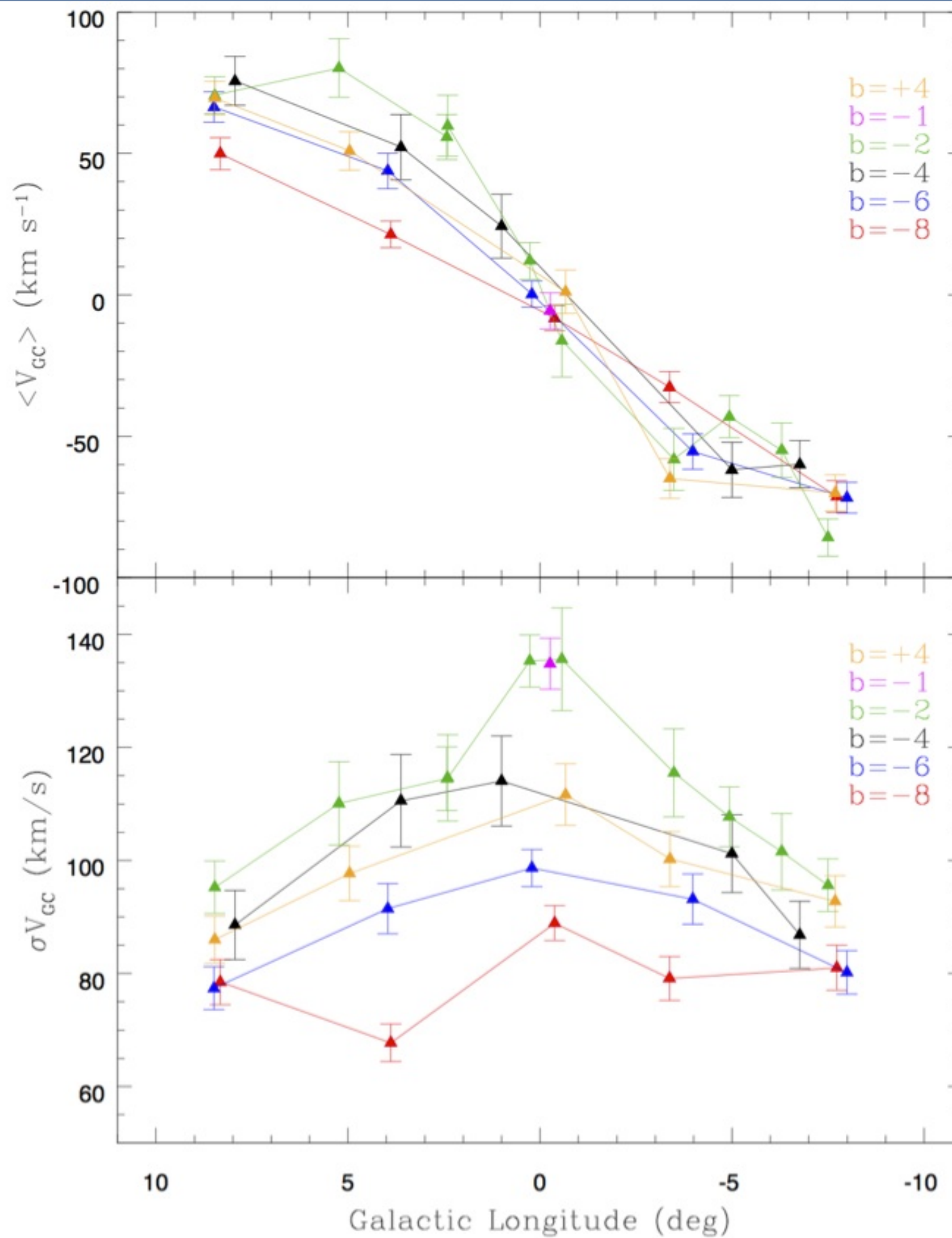


RVs Map of the whole bulge

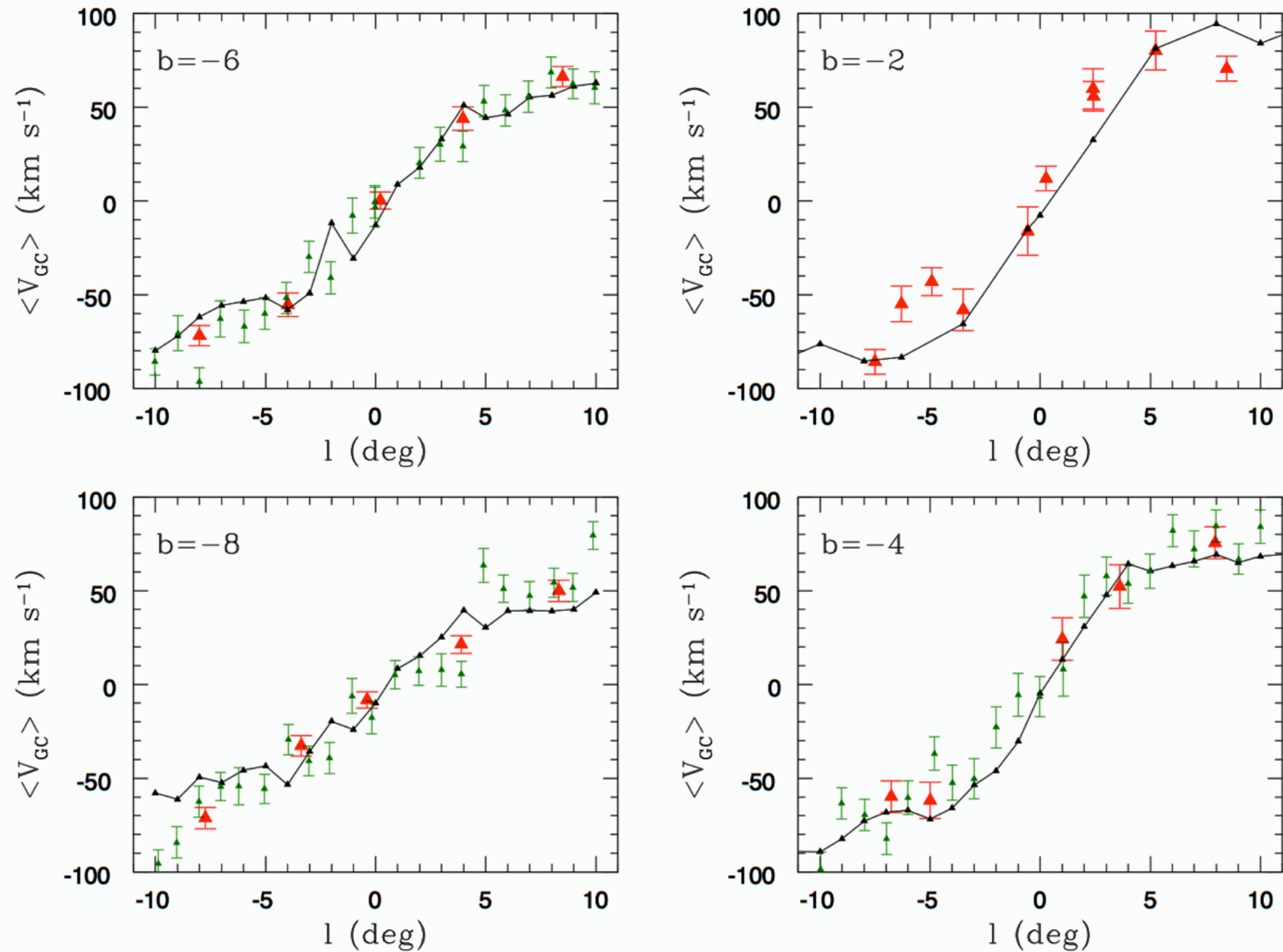


GIBS

Rotation curve



Comparison with models : *cylindrical rotation confirmed*

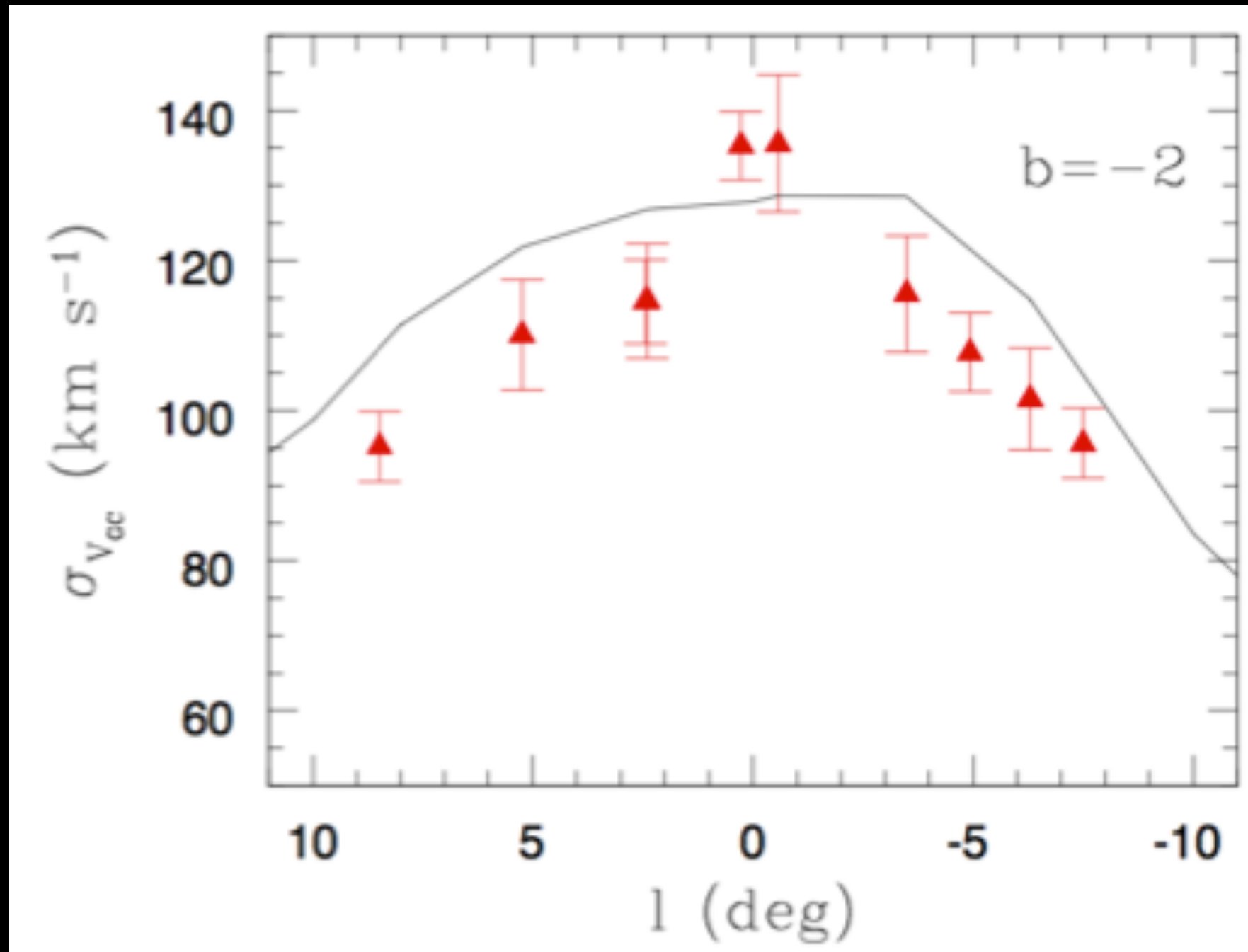


▲ GIBS

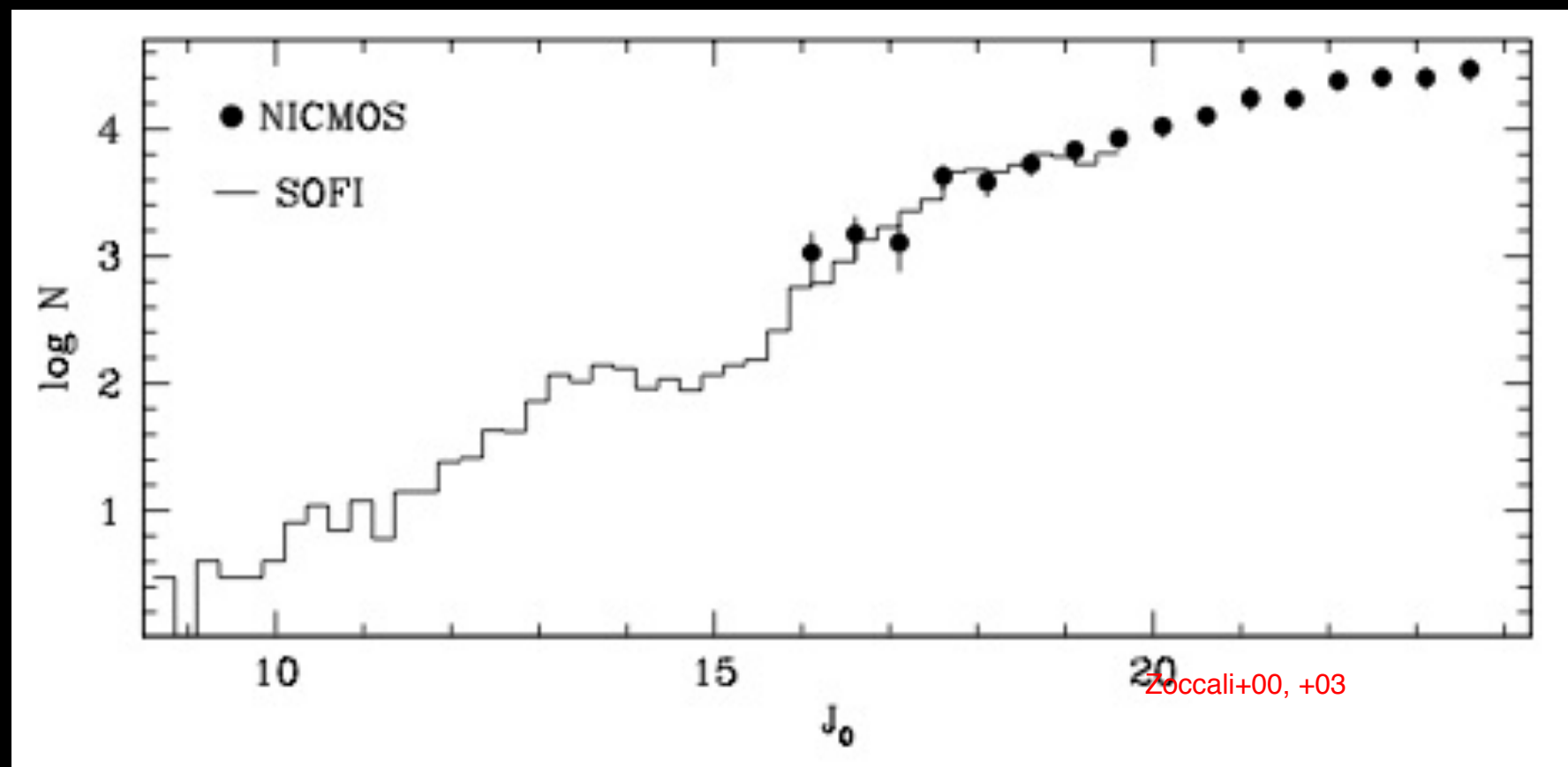
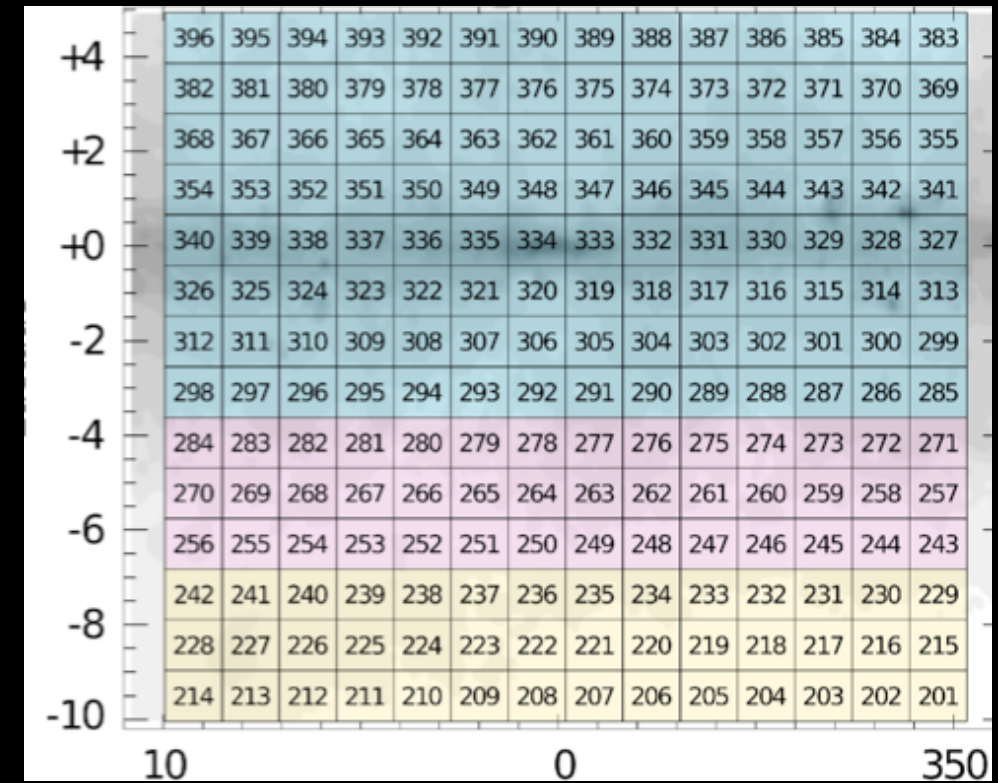
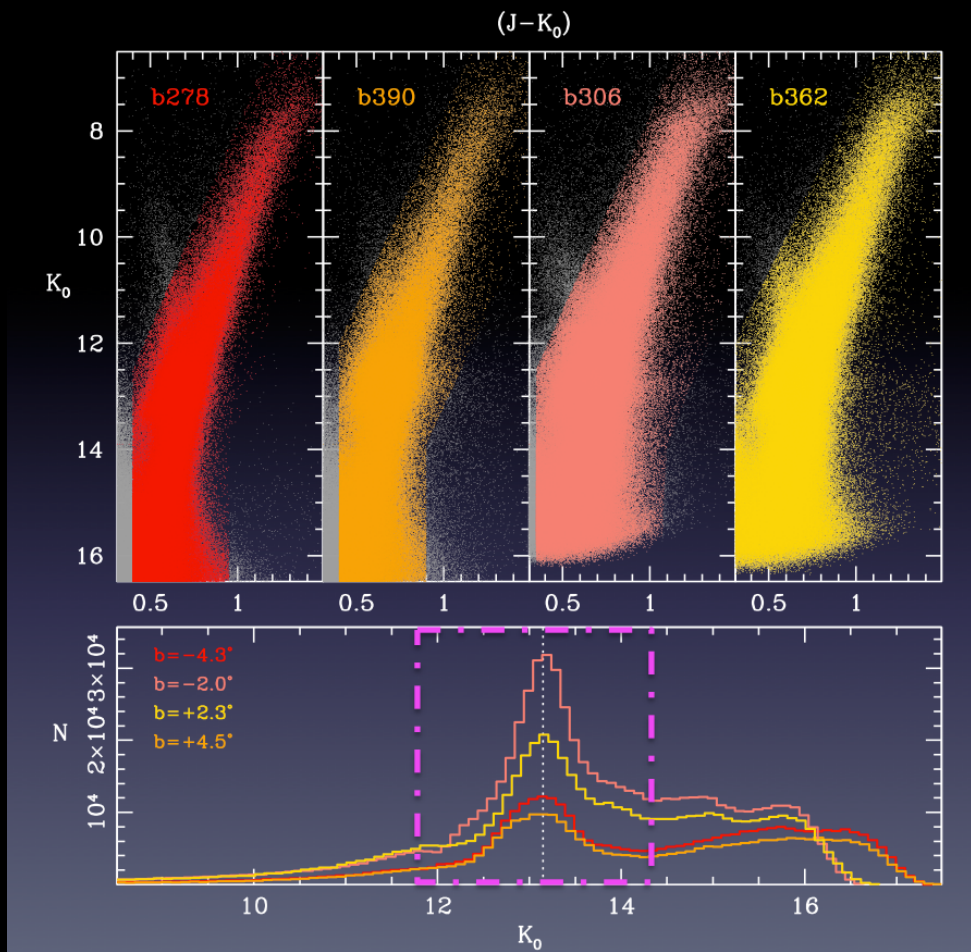
▲ BRAVA

— Martinez-Valpuesta+06

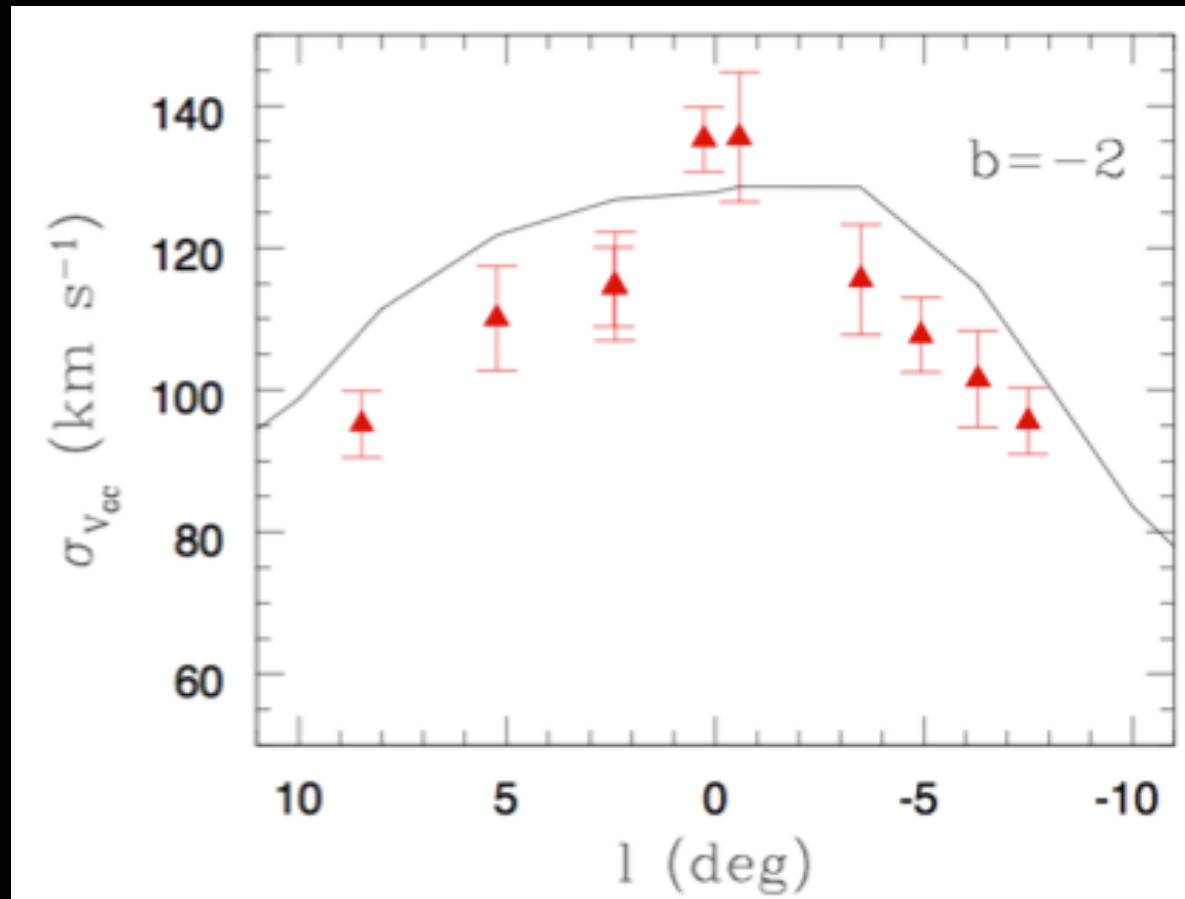
σ -peak in the center $\sim 2^\circ$



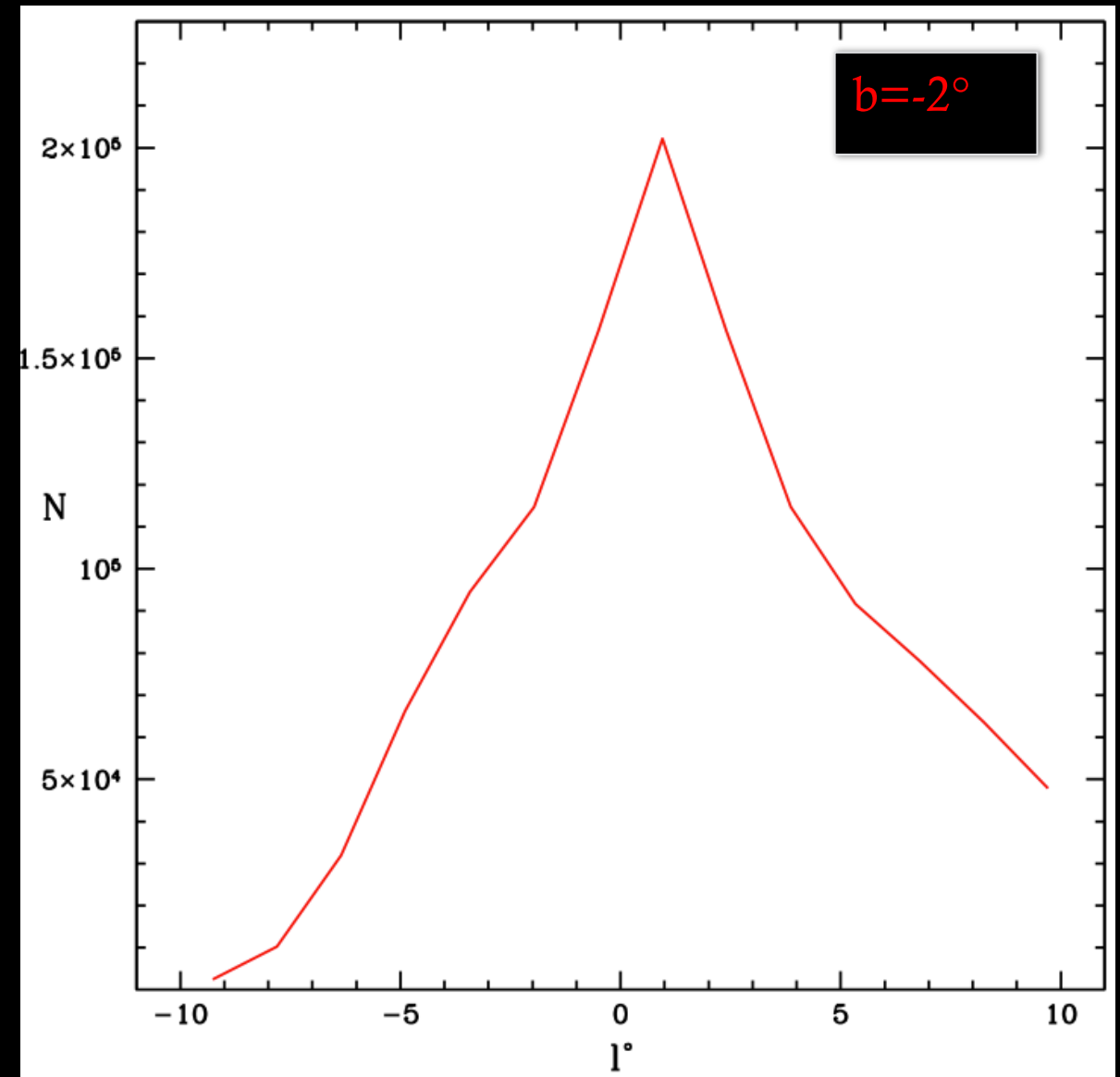
GIBS and VVV: Kinematics and Mass



GIBS and VVV: Kinematics and Mass

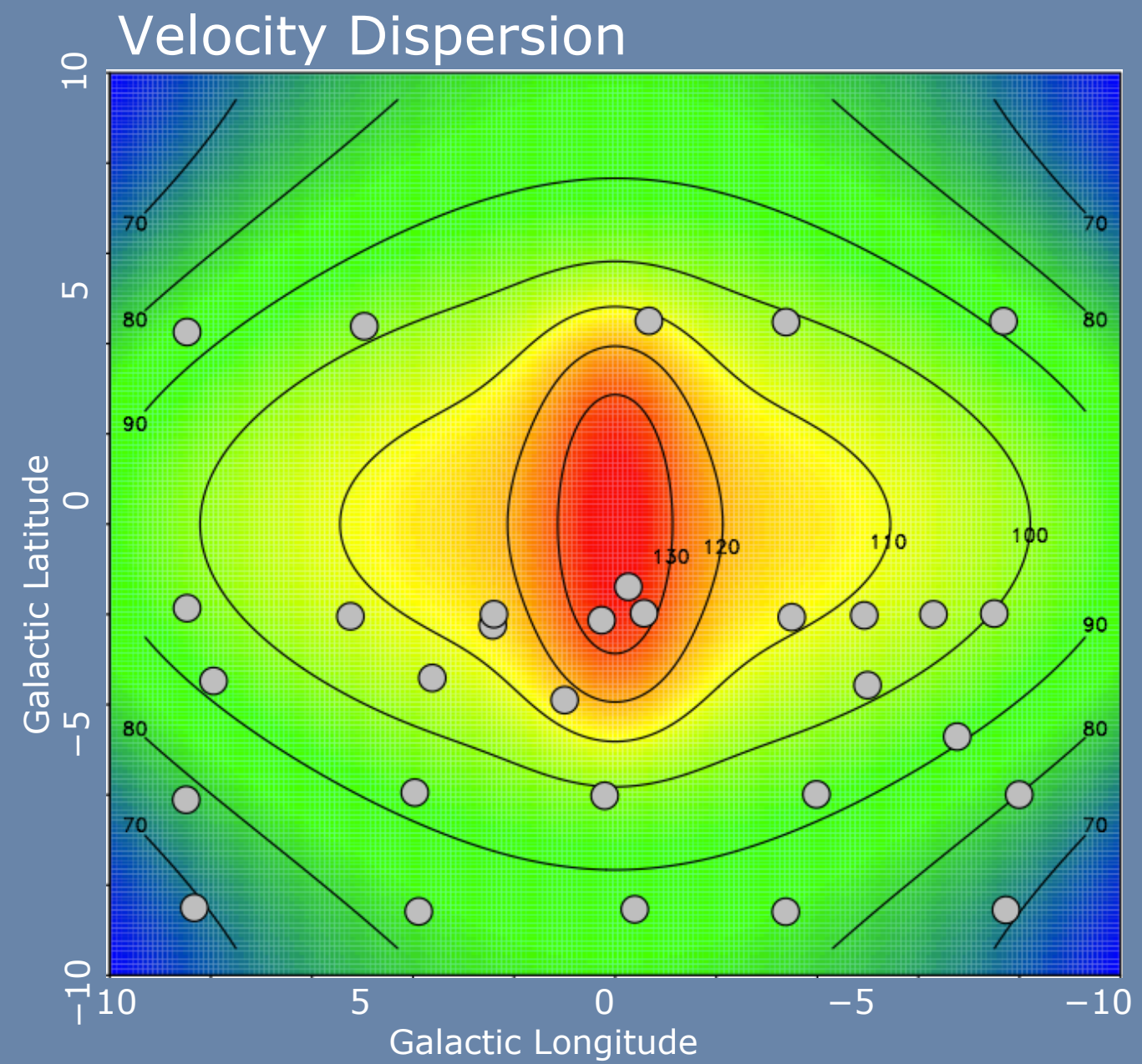
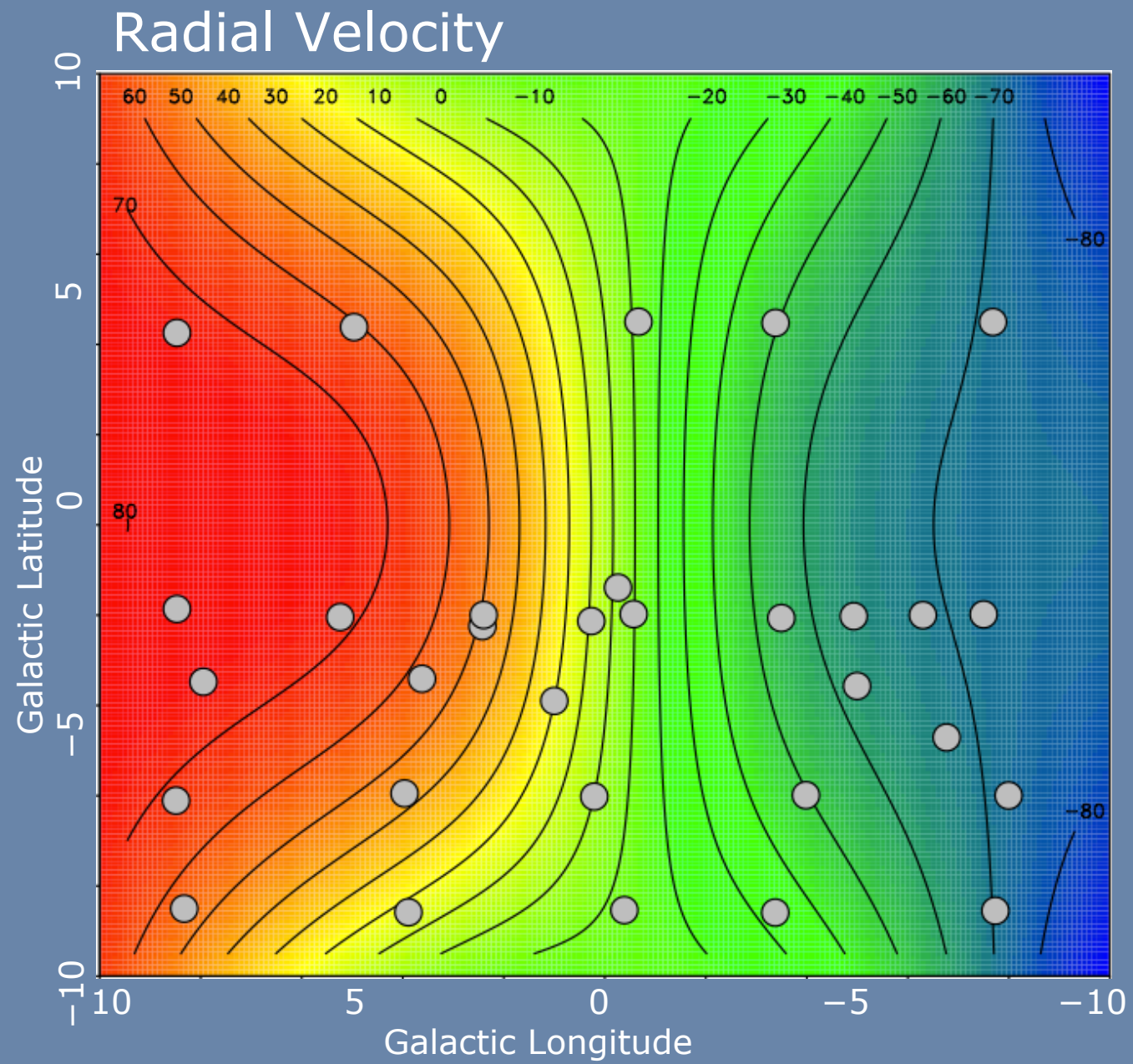


Zoccali et al. 2014



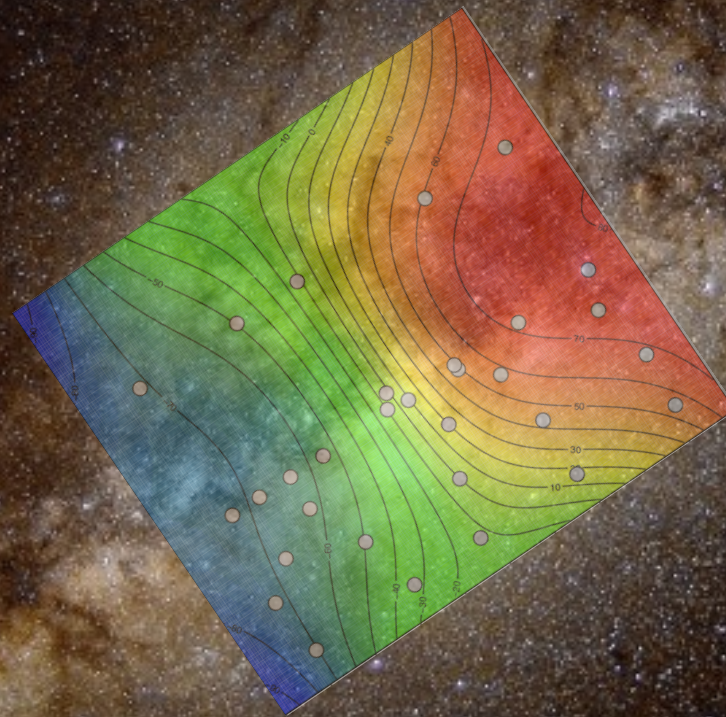
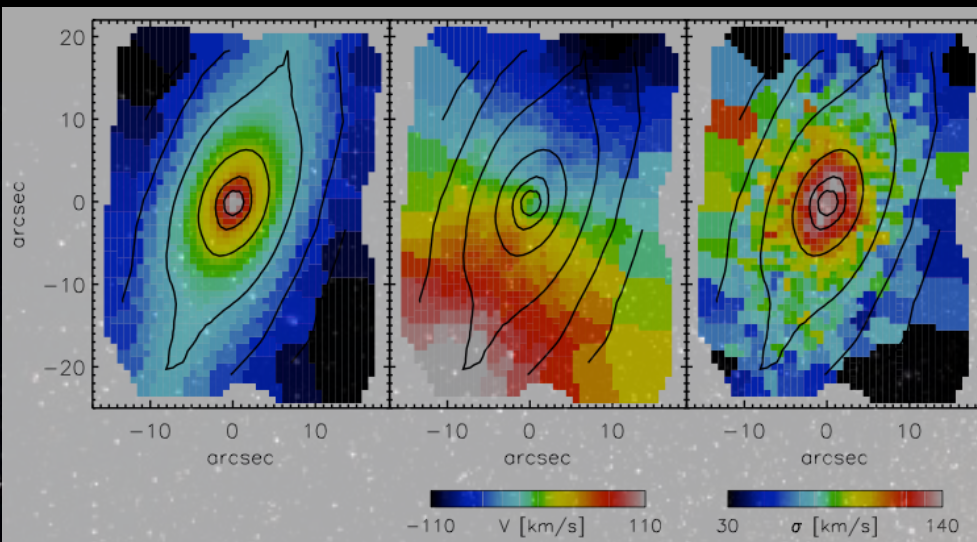
Valenti et al. 2014 (in prep)

GIBS: Kinematical Maps of the Bulge



Radial Velocity map of the Galactic bulge

(Zoccali et al. 2014)



Velocity Dispersion map of the Galactic bulge (Zoccali et al. 2013)

