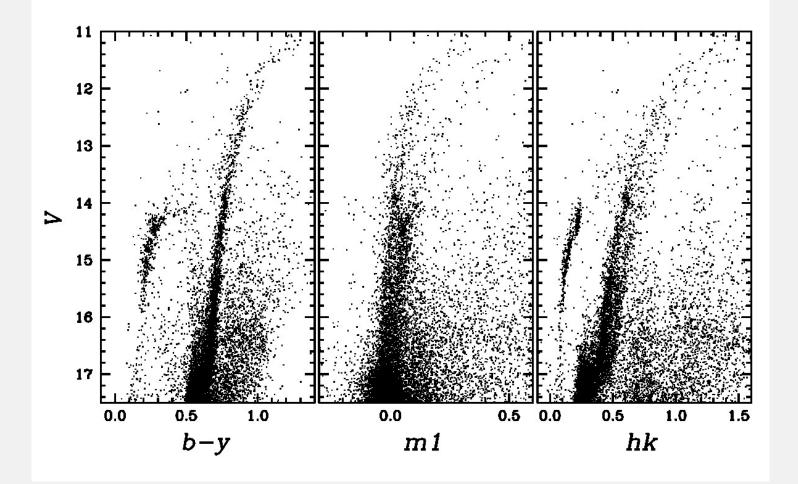
MULTIPLE STELLAR POPULATIONS OF GLOBULAR CLUSTERS FROM HOMOGENEOUS Caby PHOTOMETRY. I. M22 (NGC 6656)\*†

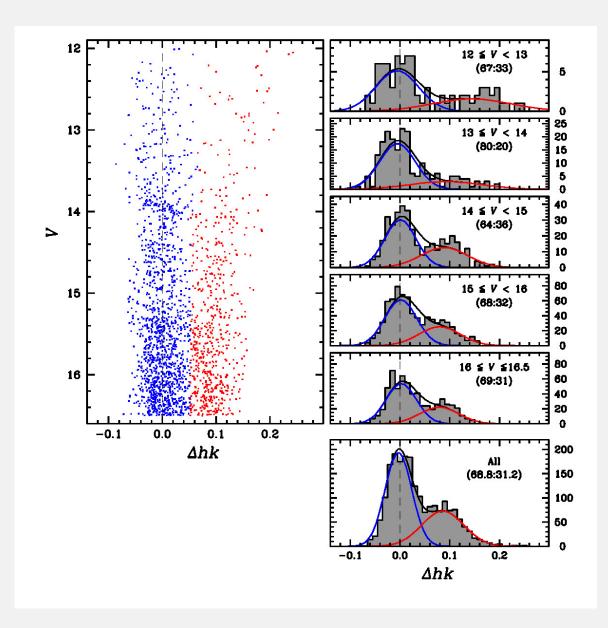
JAE-WOO LEE<sup>1</sup>

#### 2015, ApJS, 219:7

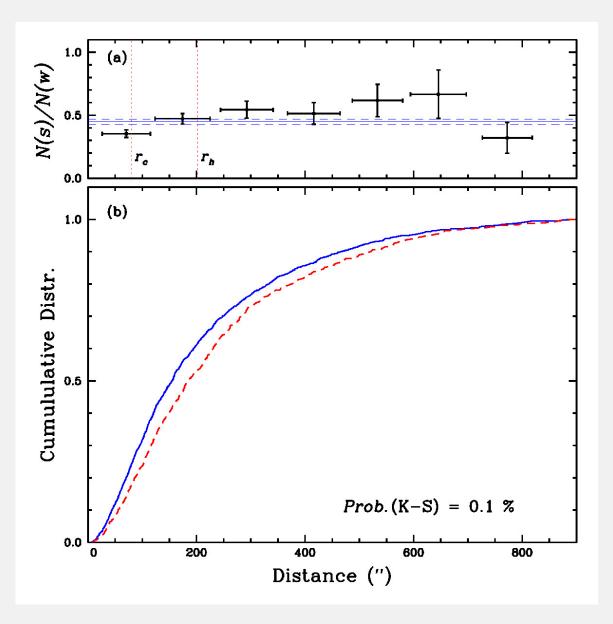
Wide-field ground based Ca uvby + HST WFC3 + RV measurements (Lane et al. 2009)



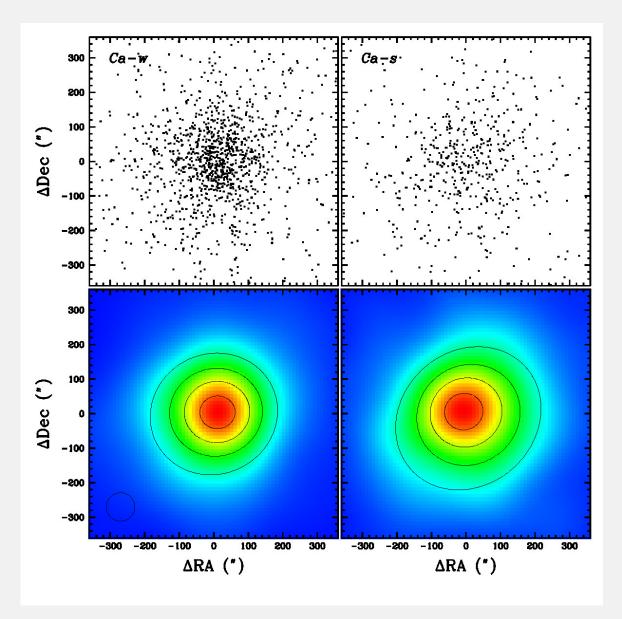
### Two RGB populations in M22



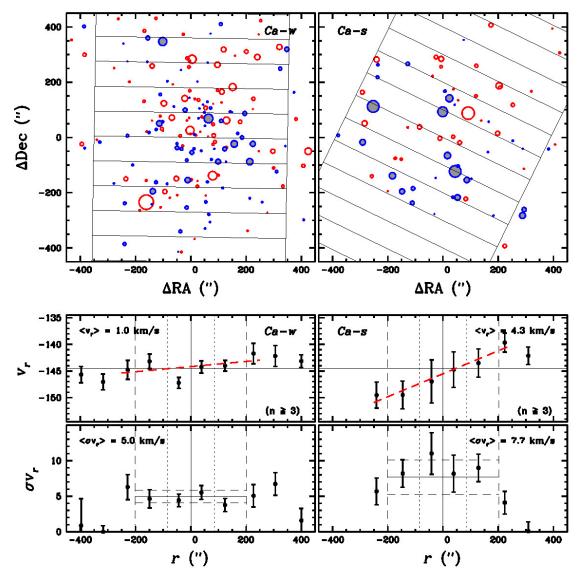
# The Ca-w population is more centrally concentrated



# The Ca-s population has a more elongated distribution



# The Ca-s population has larger projected rotational velocity and larger velocity dispersion



### Summary

- The hk index provides a powerful method to distinguish multiple populations in GCs.
- The double RGB population in M22 have different spatial distributions and kinematic properties.
- The most plausible explanation for the formation of M22 is the merger of a GC pair (in a dwarf galaxy environment).

Jae-Woo Lee : The Curious Case of M22

