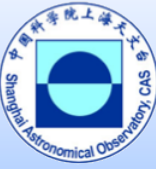


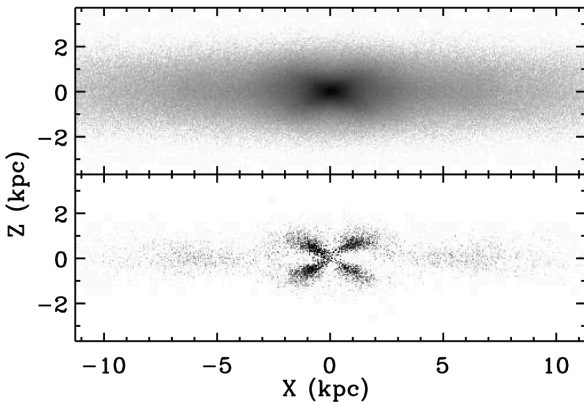
# MAPPING THE “X-SHAPED” STRUCTURE IN THE GALACTIC BULGE BAR

Zhao-Yu Li (Shanghai Astronomical Observatory)

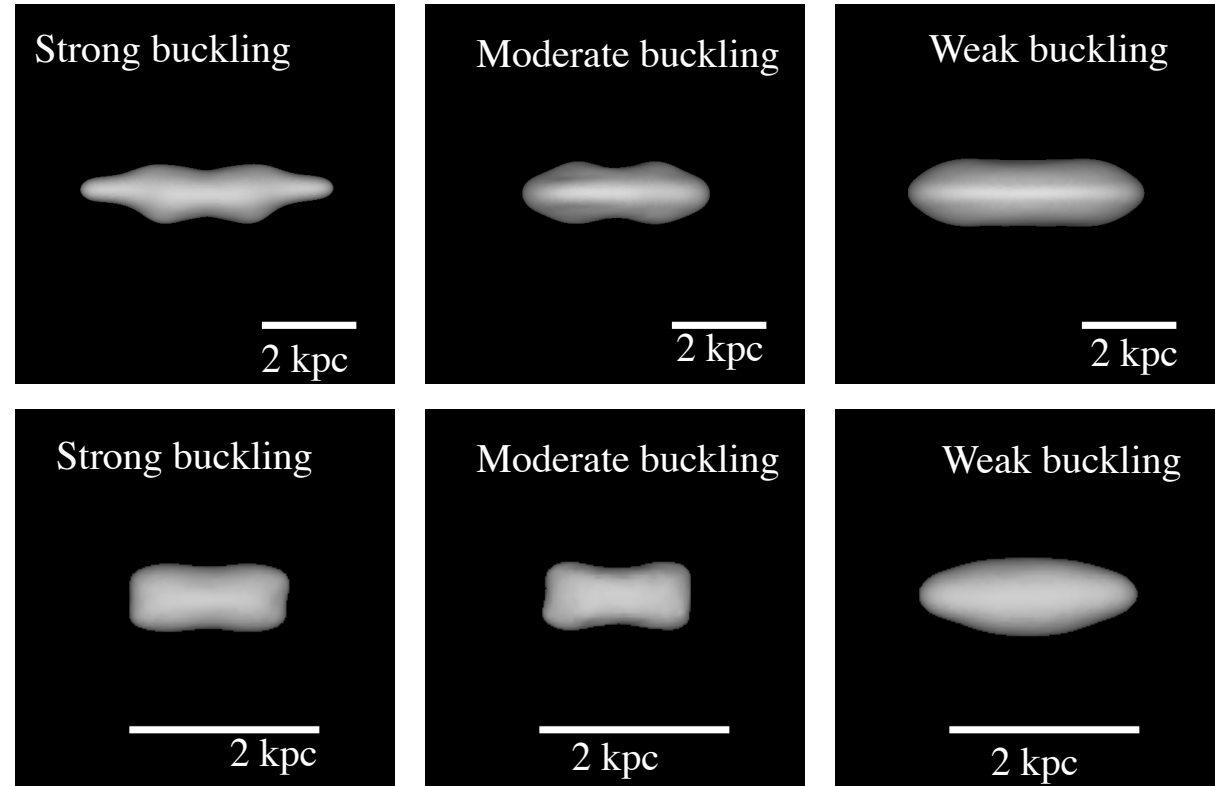
Collaborator: Juntai Shen (SHAO)



Li & Shen 2012



Li & Shen 2015



Central Boxy  $\rightarrow$  Intermediate Peanut  $\rightarrow$  Extended thin bar

- Observational evidence of an X-shaped structure can be reproduced in the edge-on disk with a side-on bar, which has similar radial and vertical extensions as the X observed in the Galaxy.
- X-shape is more peanut-like, mainly shaped via the bar buckling instability.

The morphology transitions from a central boxy core to a peanut bulge and an extended thin bar.