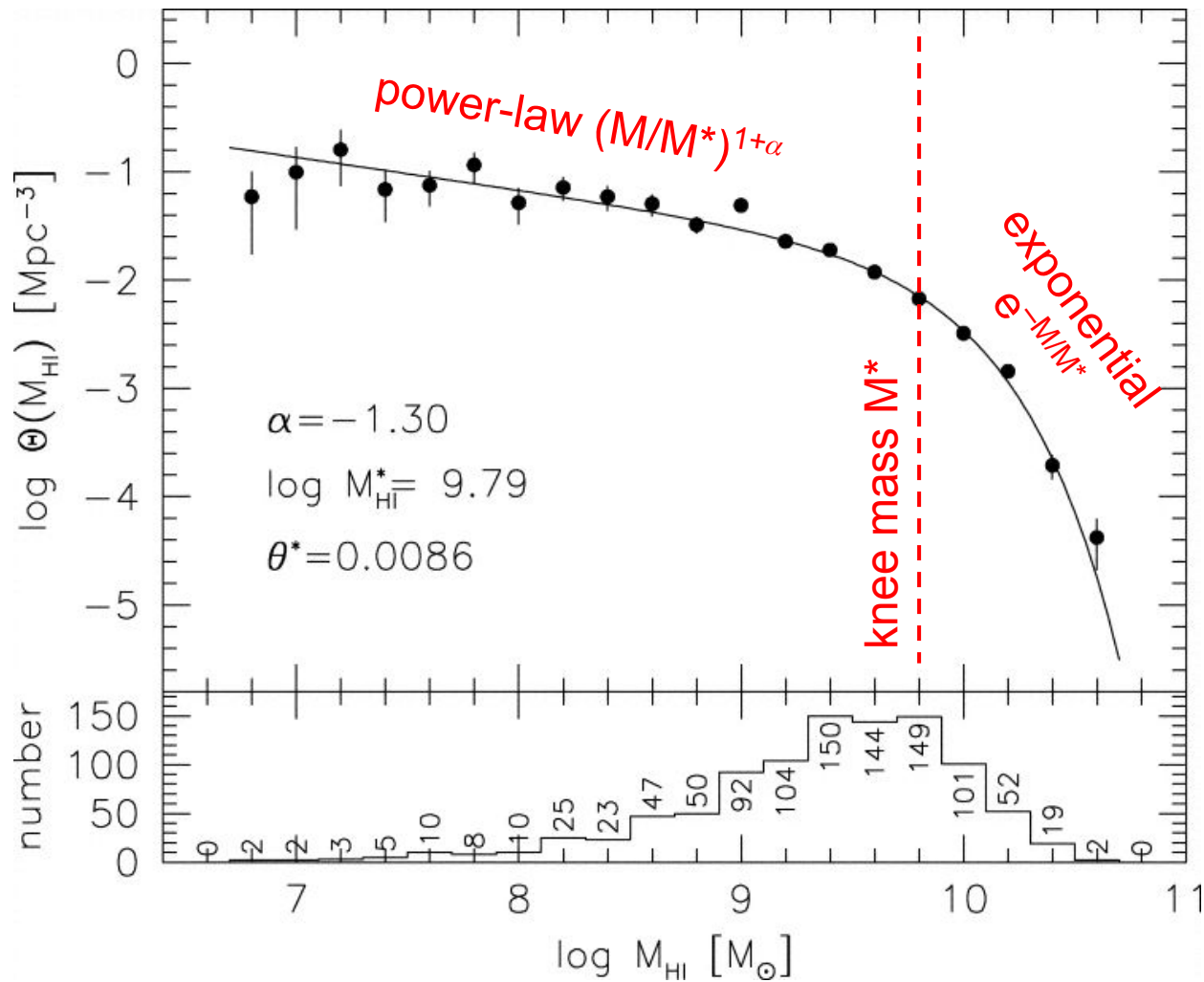


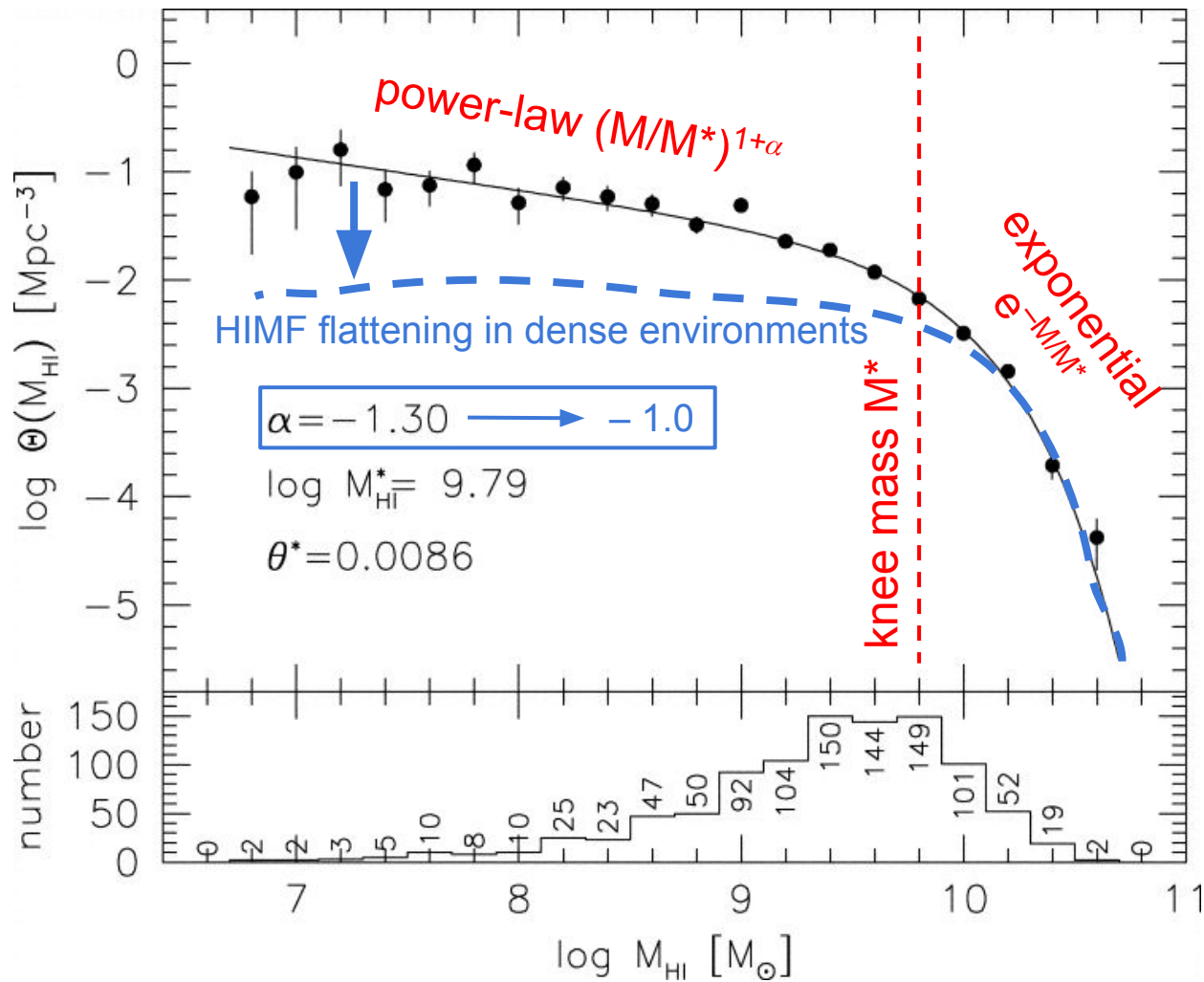
Collapse of the galaxy HI mass function in the Fornax cluster

Paolo Serra & MeerKAT Fornax Survey team

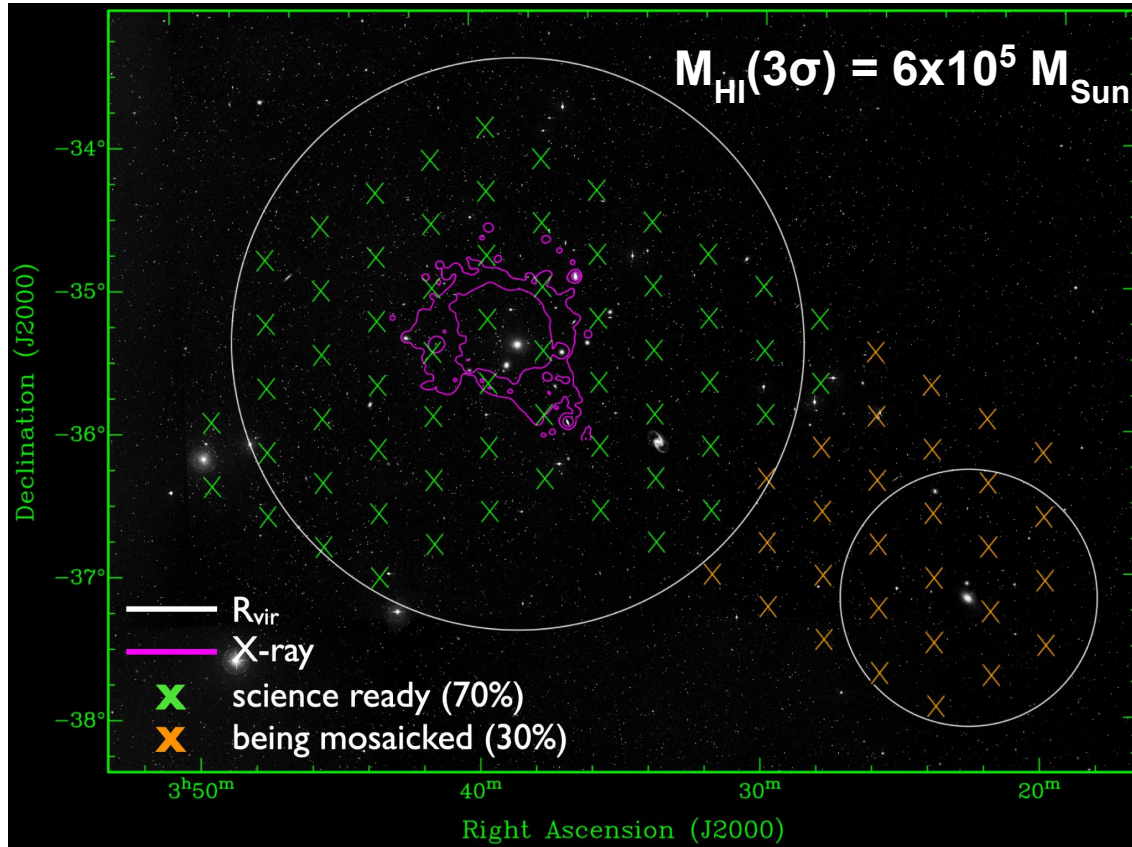
Kleiner et al. (2025), A&A, arXiv:2511.15795





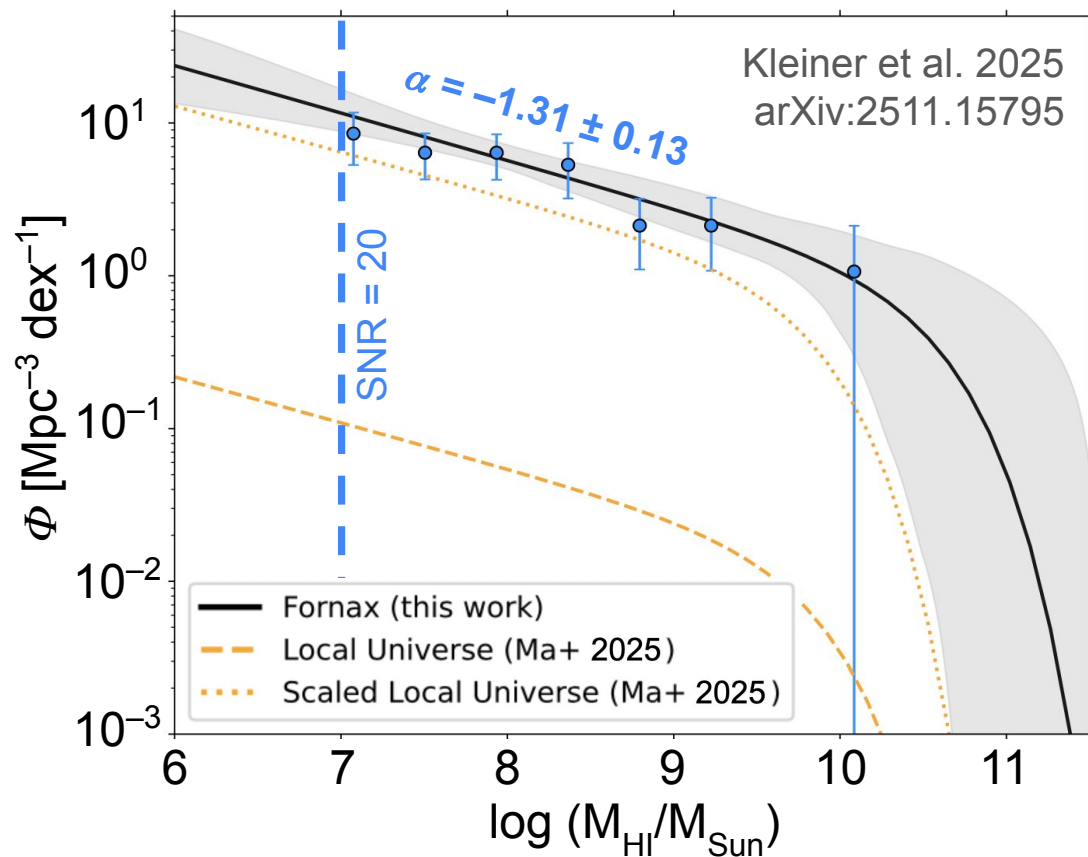


MeerKAT Fornax Survey

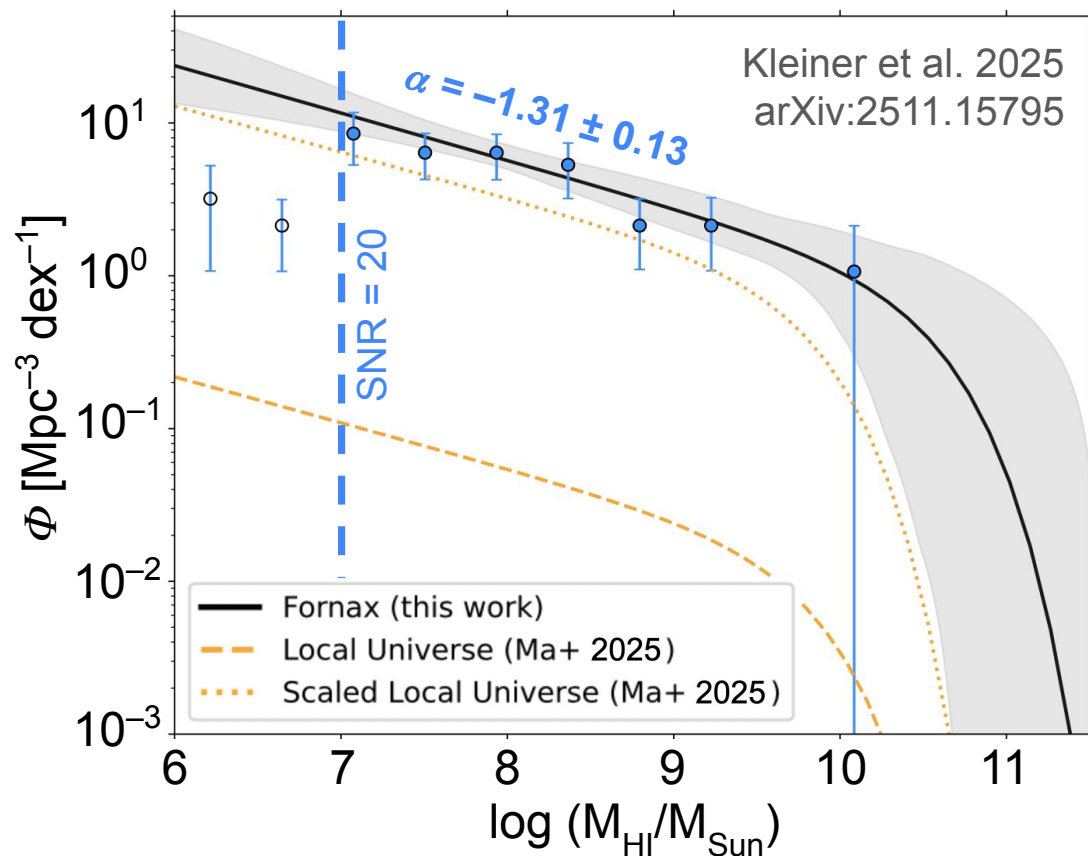


Serra+23 – more details tomorrow in Sambatra Rajohnson's talk

Collapse of the galaxy HI mass function in the Fornax cluster



Collapse of the galaxy HI mass function in the Fornax cluster



First ever evidence of a collapse of the galaxy HIMF

In Fornax $\sim 10\times$ drop for $M_{\text{HI}} < 10^7 M_{\text{Sun}}$

HIMF collapse likely a general property of dense environments caused by the fast removal of HI from small galaxies

This project has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement no. 679627).