

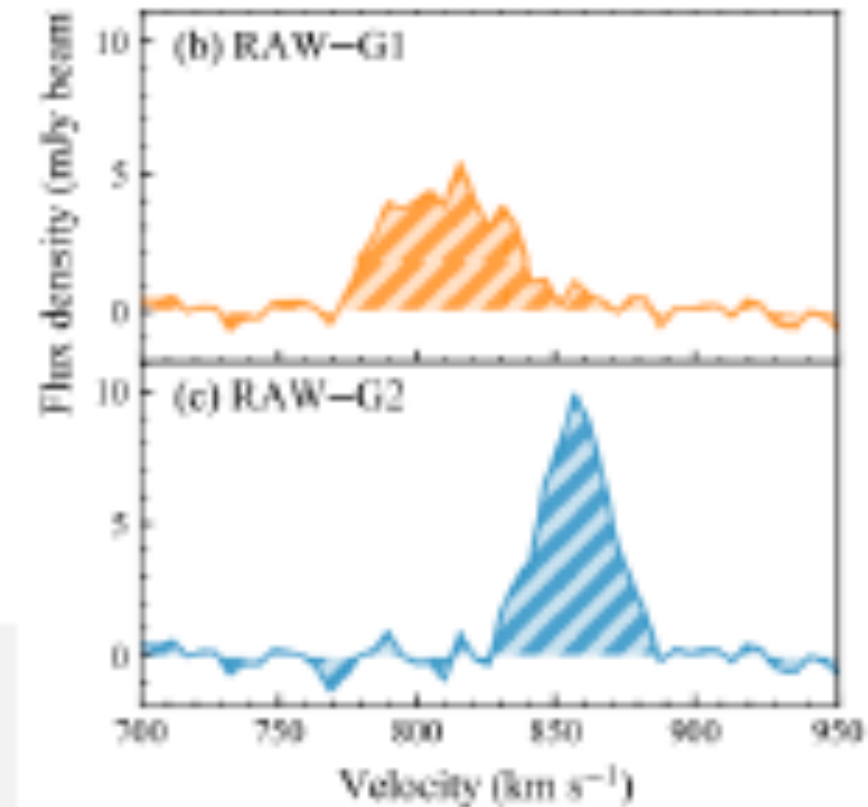
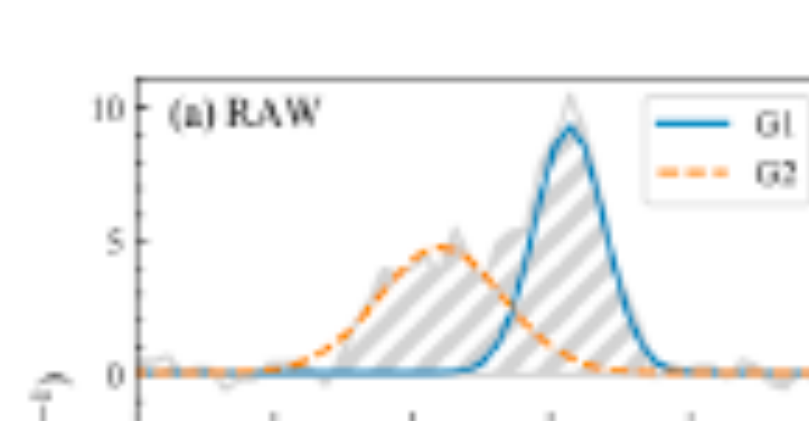
Minsu Kim

Supervisor: Se-Heon Oh



Ph.D. student (got Msc on Feb. 2023)
Sejong University, Korea
HI gas kinematics in nearby galaxies ($\lesssim 20$ Mpc)

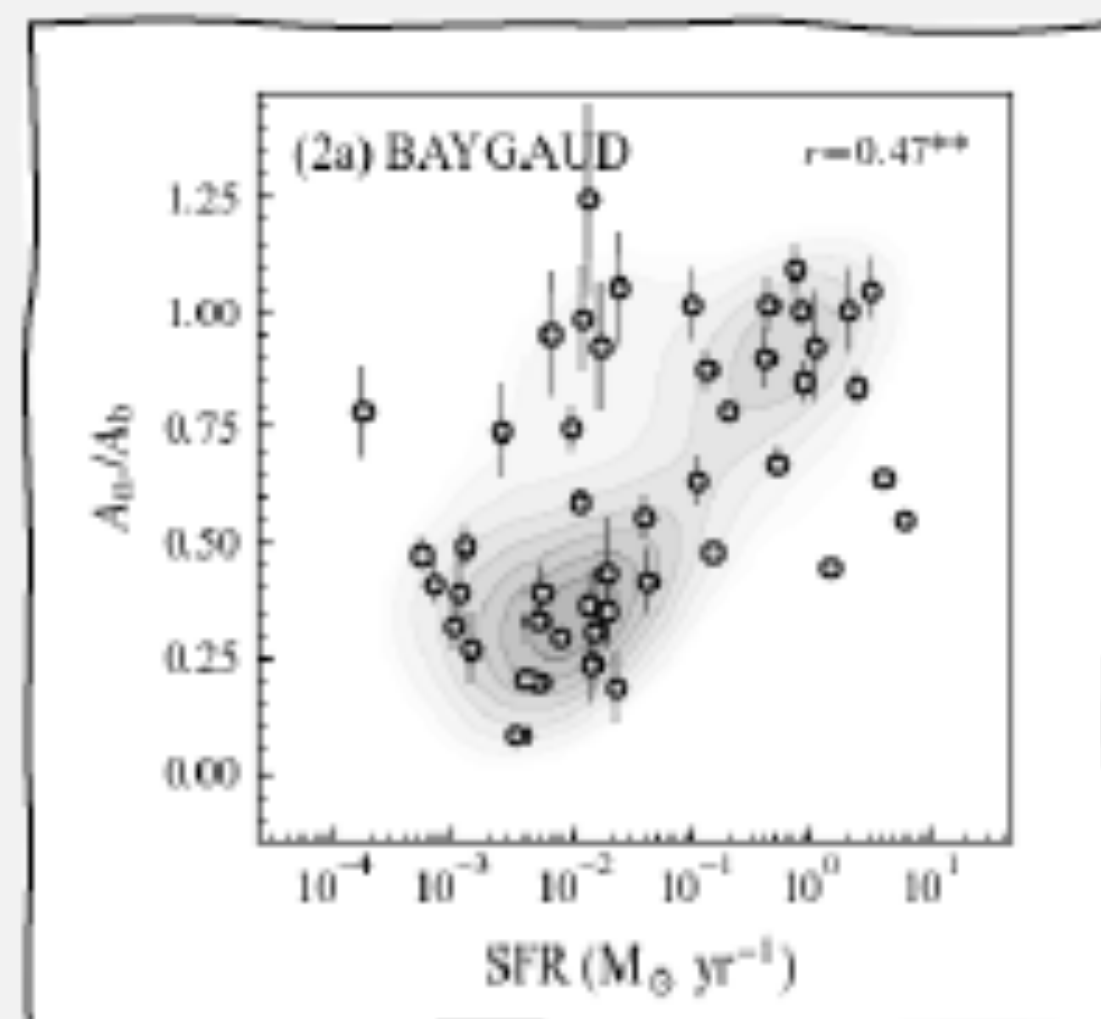
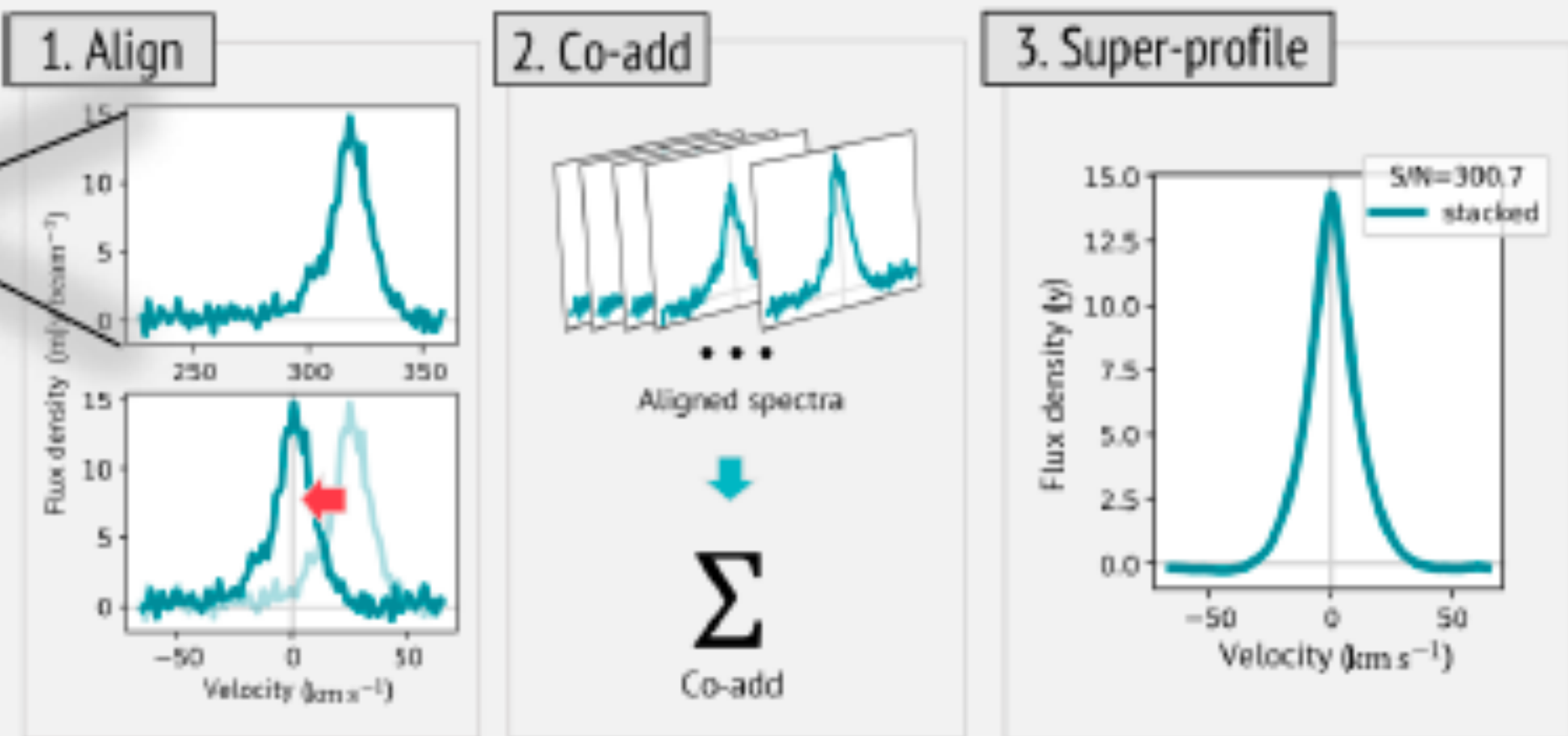
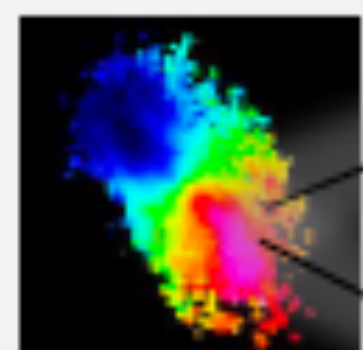
BAYGAUD
(Oh+2019)



Backbone

Msc project (2021-2022):
Global HI Properties of Galaxies via Super-Profile Analysis

arXiv 2209.00390



Global properties of galaxies can be studied in a more robust manner

Future plans:

- > **COLD ACCRETION**
Detection of cold-accreting gas from the IGM into a galaxy, by enhancing S/N using super-profiles
- > **ENVIRONMENTAL EFFECTS**
HI environmental effects on dwarfs vs. spirals, using super-profiles, on AVID data
- > **KENNICUTT-SCHMIDT LAW**
Visiting resolved KS law in AVID galaxies

Atomic gas in Virgo Interacting Dwarfs (AVID) (PI: Hong-Xin Zhang)
JVLA data reduction

Thanks!