

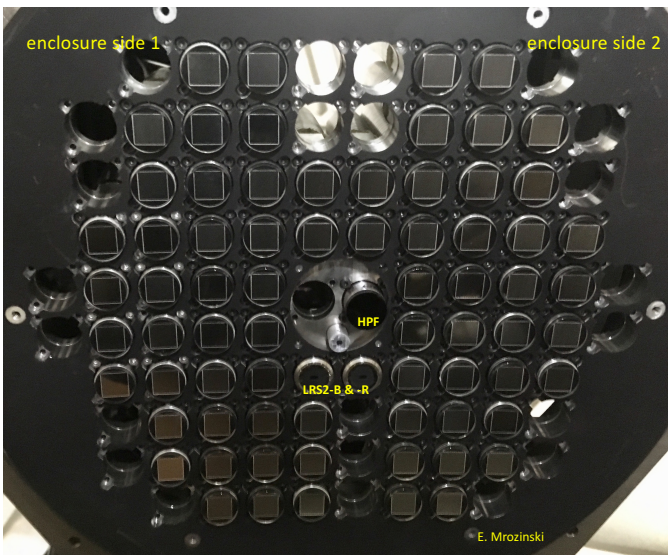
Towards Cosmology from Lyman- α Intensity Mapping in HETDEX

Shun Saito (Missouri S&T)

What is HETDEX?

- BAO survey at $2 < z < 3.5$.
- **Blind** detection of 1M LAEs.
- happening NOW! **HDR1** on 4/1/19.

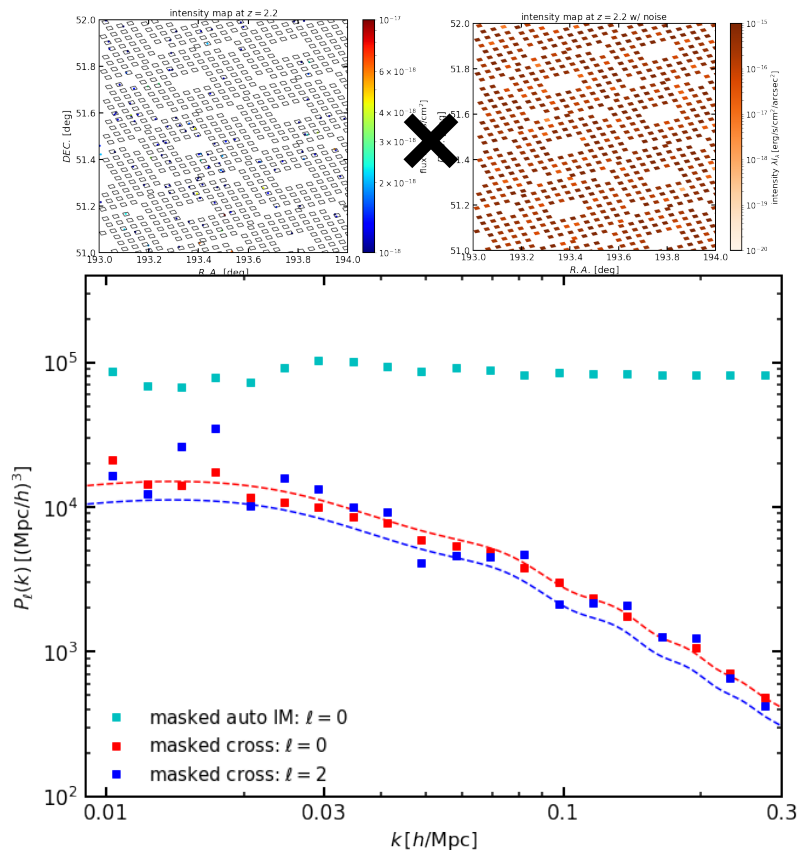
IFU layout post deployment - 71 IFUs



57/78 IFUs working!

As a Ly α Intensity Mapping Pioneer?

- Fully utilize the blind nature.



Theoretical Challenge

Byrohl, SS et al. (2019)

- Ly α Radiative Transfer
- Diffusion induces a **FoG effect**.

