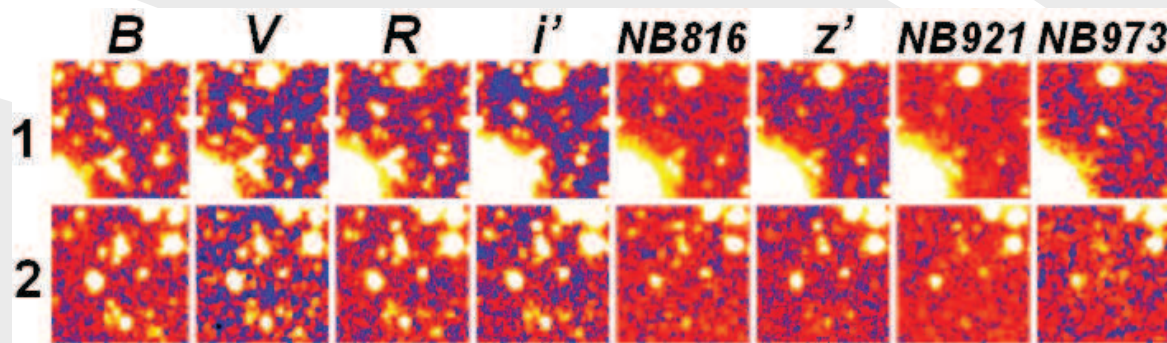


# Christian Herenz

❖ Christian Herenz

❖ Master-Thesis

- Bachelor of Science - Topic of Bachelor-Thesis (Supervisor: L. Wisotzki):  
“*Statistical Properties of Ly $\alpha$  Emitters at high z*”  
(literature research)
- Basic Technique: NB-Imaging & adjacent spectroscopy



IOK-1

$z = 6.96$  Ly $\alpha$

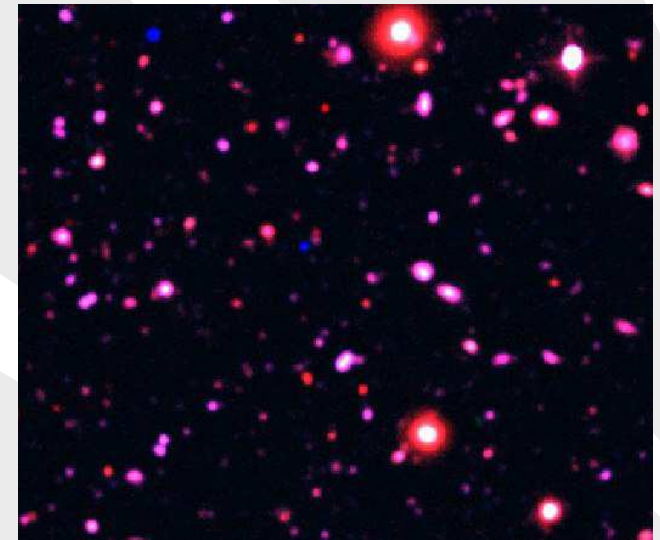
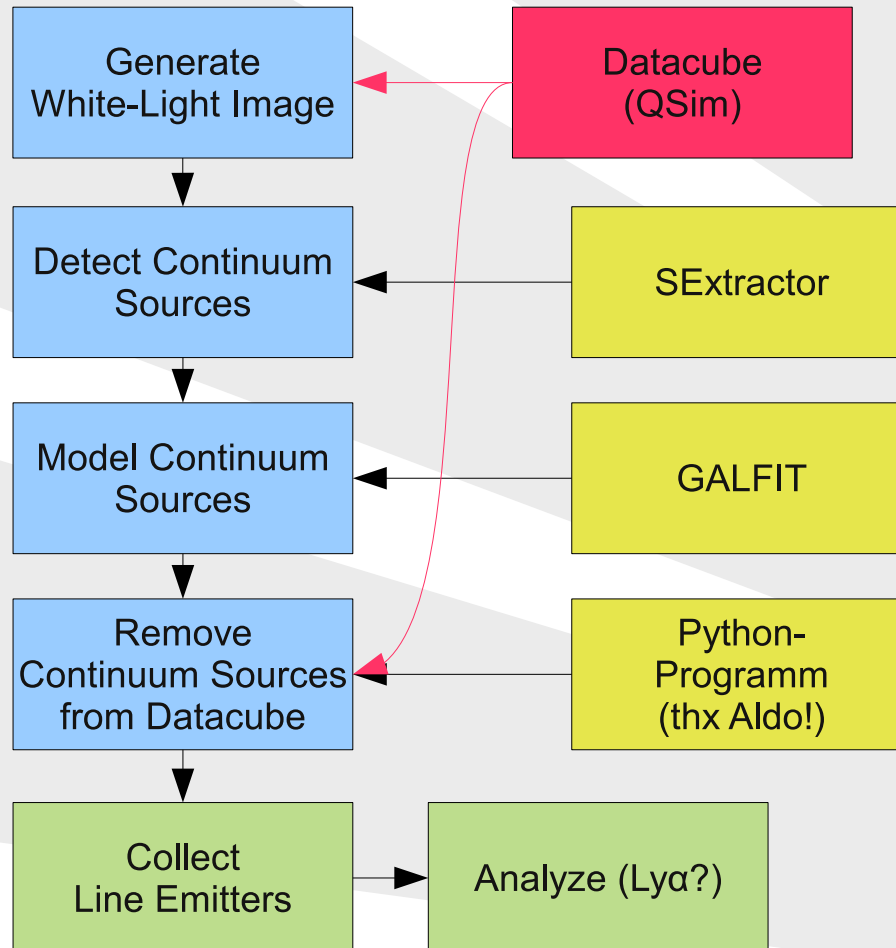
IOK-2: not Ly $\alpha$   
(star, noise, . . .)

Ota et al. 2008, ApJ 677, 12

Imaging & Spectroscopy simultaneously:

**MUSE** (FOV: 1'  $\times$  1' - 90.000 Spectra (480nm - 930nm),  
2 GB Datacube)

## ● Line Emitter Detection in simulated MUSE Datacubes



Collapsed QSim  
1' × 1' Datacube in HUDF  
( $t_{\text{exp.}} \approx 2\text{h}$  “shallow survey”)