

Ionised gas structure of 100 kpc in an over-dense region of the galaxy group COSMOS-Gr30 at $z \sim 0.7$

(Epinat et al., A&A, 2018)

50 kpc

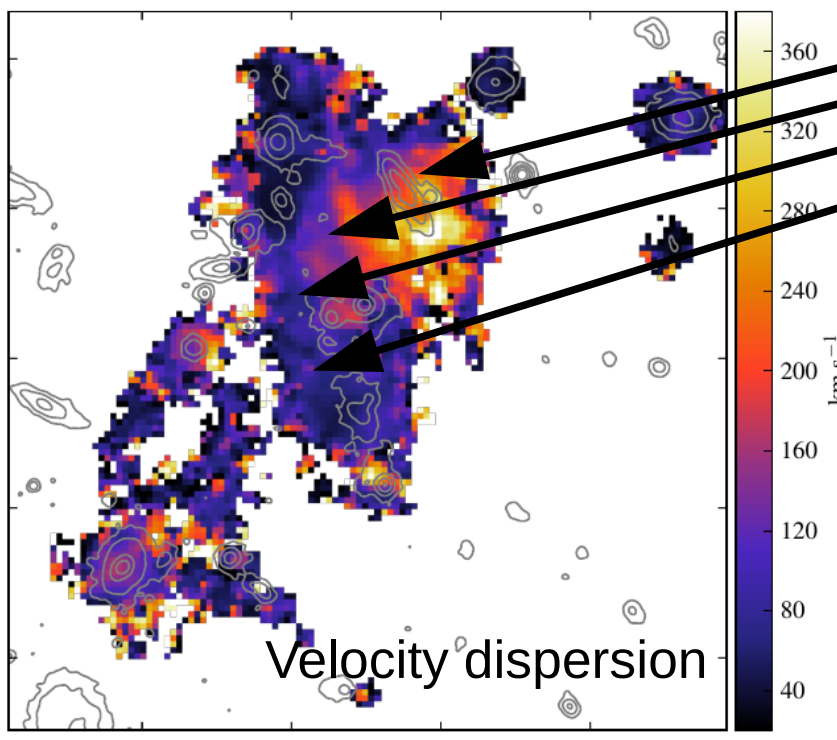
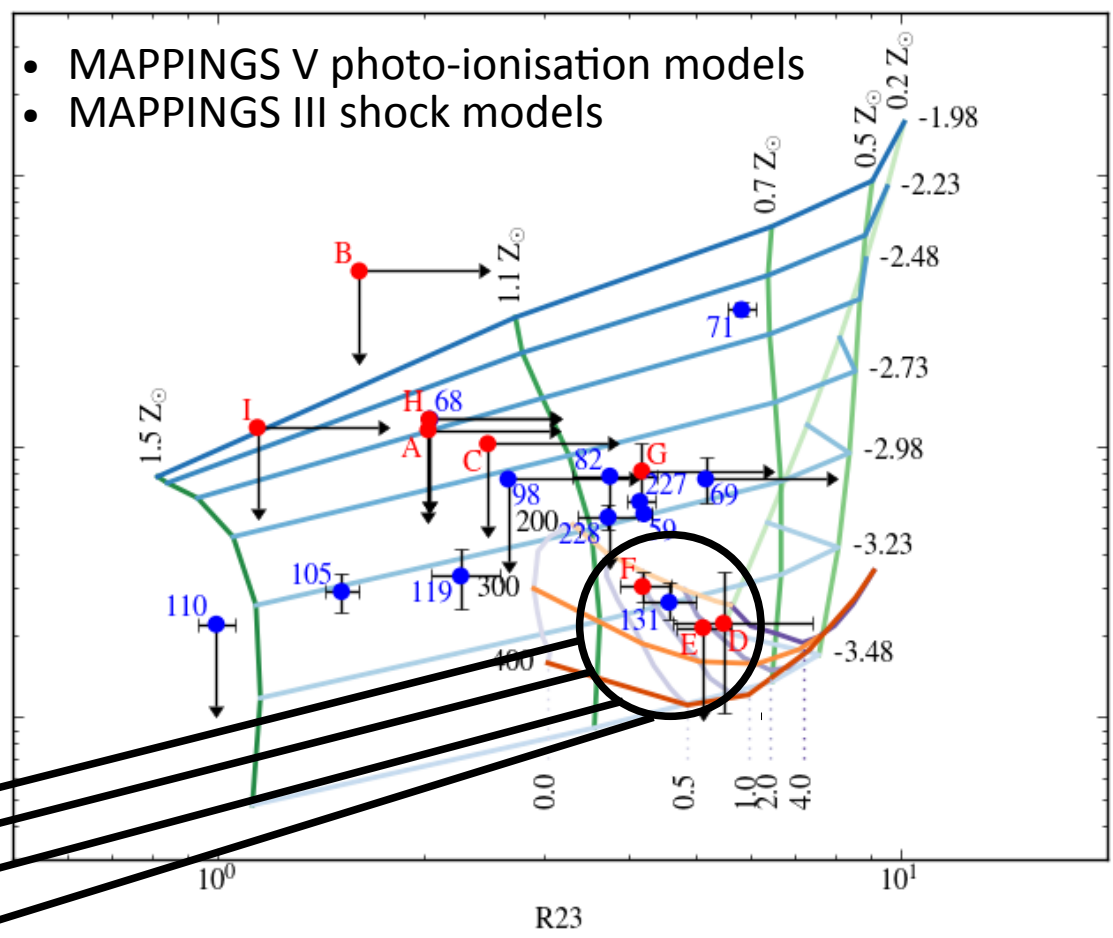
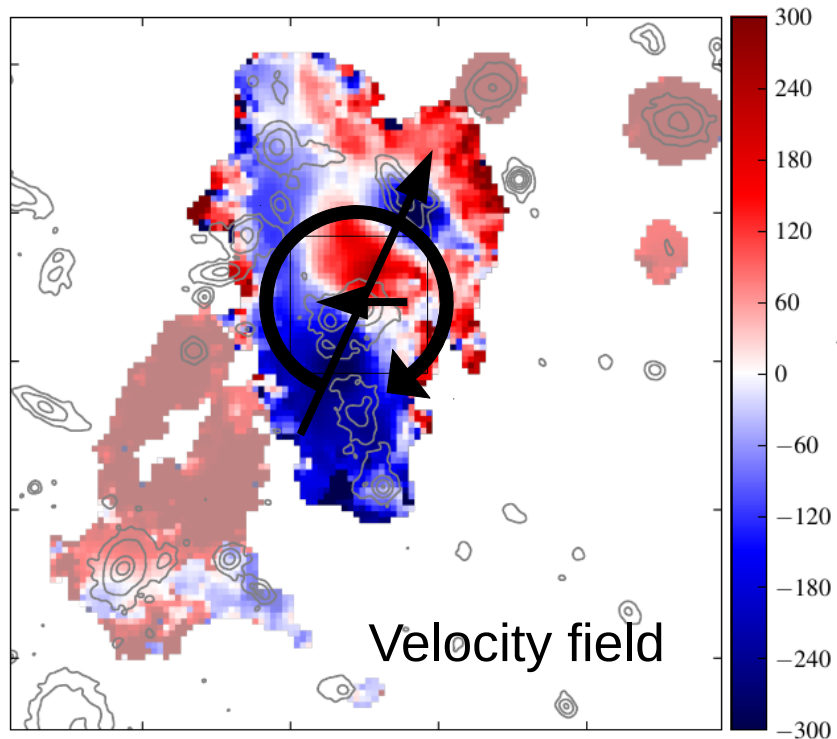


10^{11} Msun

AGN

- detection in [OII] with MUSE ($> 10^{-18}$ erg s^{-1} cm^{-2} arcsec $^{-2}$)
- 10 galaxies embedded

Credits ESO PoW (13/11/17)



- $M_{\text{gas}} \sim 5 \times 10^{10} M_{\text{sun}}$
- Galactic origin of the gas (AGN, tidal forces)
- Source of ionisation :
 - Star formation in tidal tails
 - Shocks between extended & galactic gas
 - AGN power
- **Gas settled in a disc around a massive galaxy**
 - Formation of a BCG ?
 - Rebuilding of a disc ?