

The Galaxy Stellar Mass Function evolution over 22 deg² since $z = 1.5$

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DATA SET :

- One of the largest areas available today with NUV(50%), optical and NIR at a depth of $K_s \sim 22$
- A *representative* spectroscopic sample of more than 50000 redshifts to train photo-z : $\sigma_{\Delta z/(1+z)} \sim 0.03$ (< 0.1 up to $z = 1.5$)

SMF :

- Cosmic Variance reduced to a **minor contribution** in the error budget
- **Clear & smooth evolution** between $z = 1$ and $z = 0.2$

CONSTRAINT ON QUENCHING :

- **High constancy** of the Schechter M_* parameter for SF galaxies
 - ⇒ Mass dependant quenching main channel & constraint on its characteristic value ($\sim 10^{10.82} M_\odot$)
- **Confirmation** of the **double-Schechter** profile for low- z Q galaxies
 - ⇒ Need for a quenching channel affecting light galaxies (*environmental quenching* of Peng et al. 2010)

