



Contribution ID : 95

Type : **not specified**

## Cosmological parameters via HII galaxies and systematic uncertainties

*martedì 30 maggio 2023 11:00 (25)*

We present independent determinations of cosmological parameters using the distance estimator based on the established correlation between the Balmer line luminosity,  $L(H\beta)$ , and the velocity dispersion ( $\sigma$ ) for HII galaxies (HII G). We also explore in detail the systematic uncertainties associated with HII G as a cosmological tracer. These results are based on new VLT-KMOS high spectral resolution observations of 41 high- $z$  ( $1.3 < z < 2.6$ ) HII G combined with previously obtained data for 45 high- $z$  and 107 local HII G.

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