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## Cosmological parameters via HII galaxies and systematic uncertainties

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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 (HIIG). We also explore in detail the systematic uncertainties associated with HIIG as a cosmological tracer. These results are based on new VLT-KMOS high spectral resolution observations of 41 high- $z$  ( $1.3 < z < 2.6$ ) HIIG combined with previously obtained data for 45 high- $z$  and 107 local HIIG

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