

Cosmology with recent and future massive spectroscopic surveys: eBOSS and 4MOST/CRS

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Massive spectroscopic surveys are a key-component of the cosmological experiments, constraining the dark energy with the measurement of the Baryon Acoustic Oscillation (BAO) scale, but also the General Relativity on cosmological scales through redshift-space distortion (RSD) measurements, or the summed mass of all neutrino species.

I will first present latest results from the SDSS/eBOSS survey (2014-2019, ~1 million spectra over 7500 deg²), which is focusing on the [0.6,2.2] redshift range. I will then introduce the 4MOST/CRS survey (2021-2026) which will observe 20 million spectra for redshifts within 0 and 3, over 14,000 deg², to map the three-dimensional matter distribution. 4MOST/CRS will thus be a reference survey over the Southern Sky.

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