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An overview of DESI Lyman alpha forest data and science ALMA GONZALEZ MORALES, Universidad de Guanajuato, DARK ENERGY SPECTROSCOPIC INSTRUMENT COLLABORATION — The Lyman alpha forest measured from the spectra of high-redshift quasars observed with DESI will provide a wealth of information for cosmology. It will allow us to unveil the expansion history with great precision by measuring the BAO scale at redshift above 2, through the measurement of the forest absorptions auto-correlation and cross-correlations with quasars. Furthermore, it will provide information on scales of about tens of Mpc, allowing to set strong constraints to massive neutrinos and dark matter with small scale suppression, such as warm and scalar field dark matter. In this talk I will give an overview of the Lyman alpha data quality from DESI Survey Validation and show preliminary results that support it fulfils our science requirements.

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