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Weak Lensing with Lyman-alpha forest surveys

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Weak gravitational lensing causes small displacements in the apparent angular position of quasars, and of the Lyman-alpha forests in their spectra. By measuring local distortions from the Lyman-alpha auto and quasar cross correlation functions, we propose to reconstruct the lensing mass distribution. With tests on eBOSS and DESI mocks, we expect to make S/N forecasts for these and future surveys.

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