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We are aiming to reach a better understanding of the circum-galactic medium (CGM) by studying Lyman-alpha absorbing galaxies.

From absorption features in IFU spectra of quasar fields we know the gas and metallicity properties of the medium surrounding our sample of galaxies. In order to investigate the connection between the CGM and the galaxy itself we want to relate these gas and metallicity properties of the CGM to the properties of the stellar continuum of the host galaxy.

We use HST observations in 3-5 broad band filters to characterise the stellar continuum of previously detected counterpart galaxies of damped Lyman-alpha absorbers (DLAs).

Performing SED fitting on these galaxies we get information of the stellar content.

We can combine this with the kinematic information of the surrounding gas that we already know from the IFU spectra and use this combined information to probe the gas flows in these systems.

I will present the current state and results of our research as well as our next goals in reaching a better understanding of the CGM.