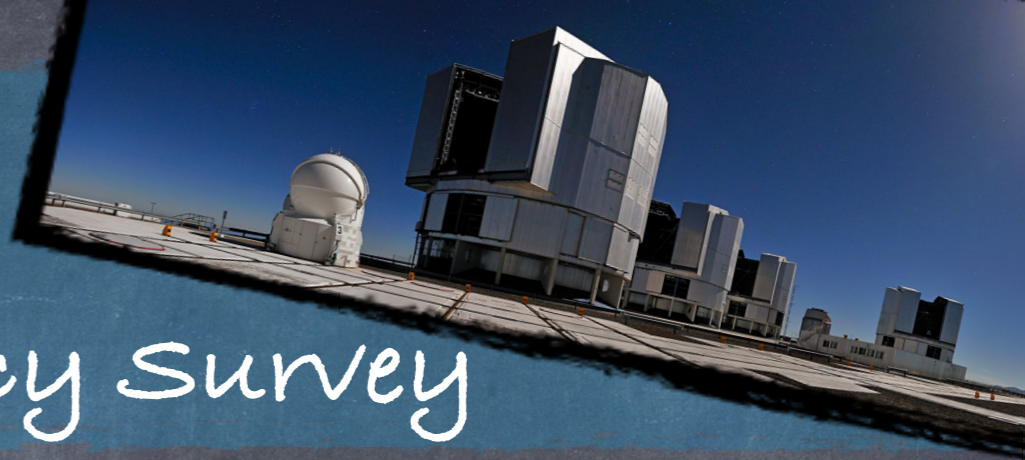


Occurrence and global properties of Narrow Absorbed Lines in XQ-100 Legacy Survey



Environment

100 QSOs with $z > 3.5$

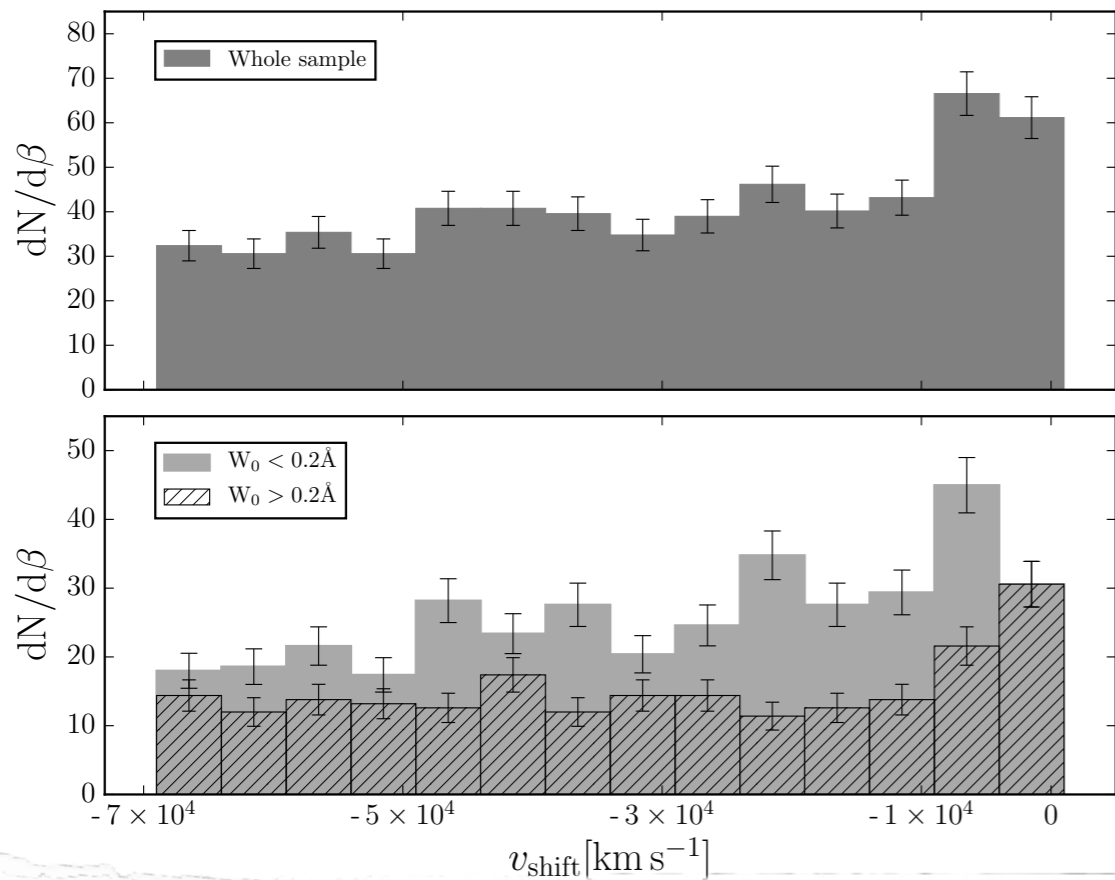
Absorption Lines

X-Shooter Intermediate resolution spectra (VIS band ~ 8800)
Large spectral coverage (UVB, VIS, NIR)

Statistical study of NAL properties

Basic structure of QSO outflows
Ionization structure

Serena Perrotta
Spineto 2015



Empirical evidence

Velocity offset distribution

$$\beta \equiv \frac{v_{\text{shift}}}{c} = -\frac{(1+z_{em})^2 - (1+z_{ab})^2}{(1+z_{em})^2 + (1+z_{ab})^2}$$

NV/CIV EW vs SiIV/CIV EW

