

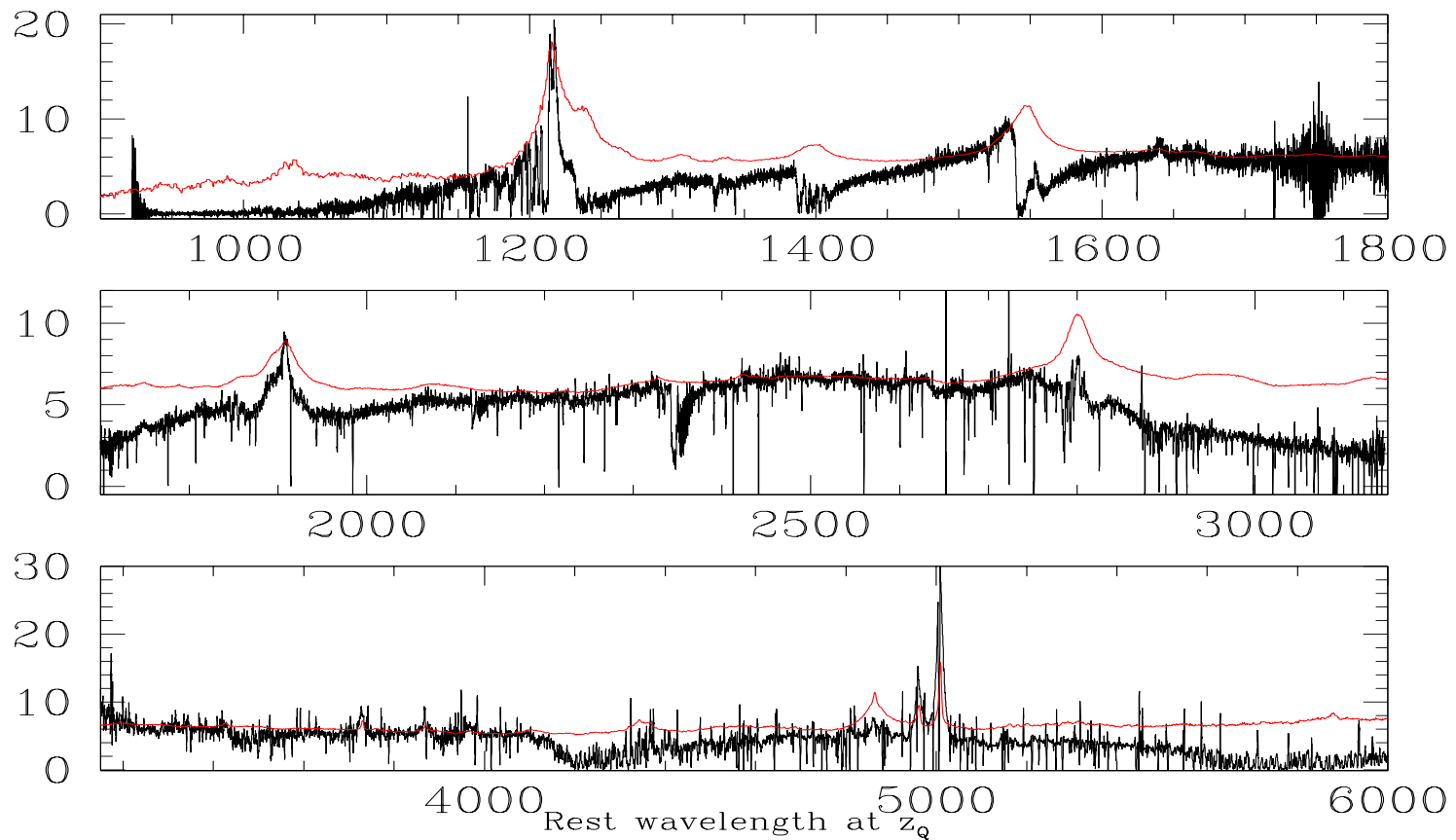
# IUCAA's Science Programmes with SALT



## SALT programmes @ IUCAA

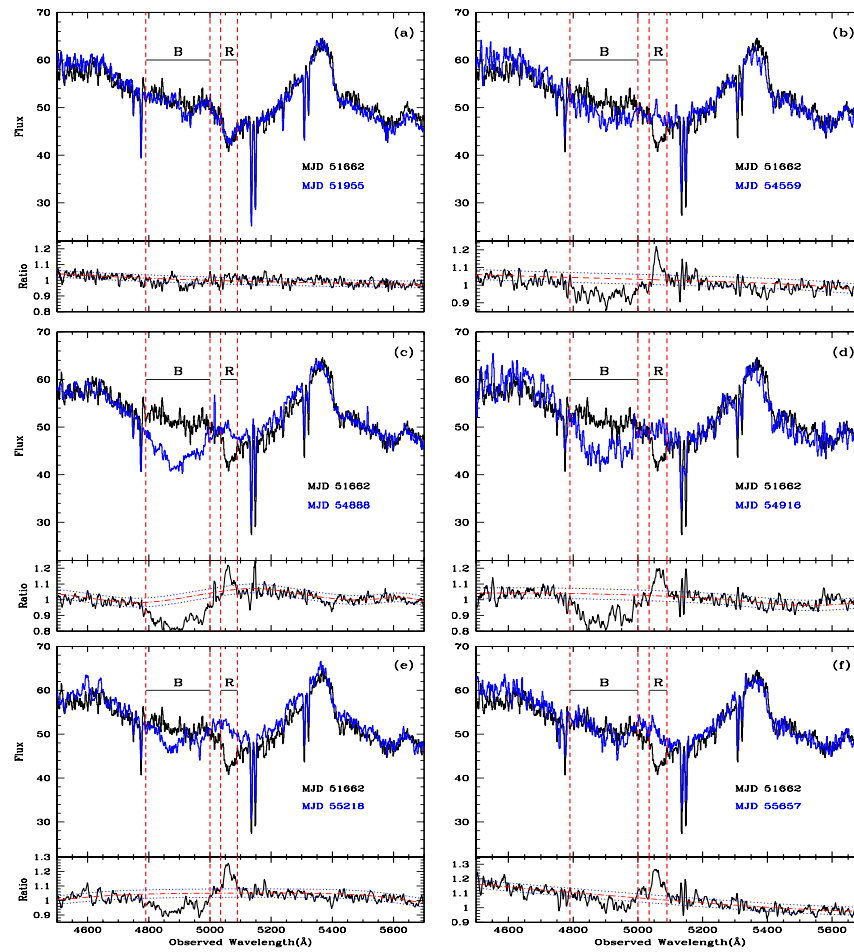
- Morphology of galaxies: Mostly low- $z$  bright galaxies
- Rapid variability of compact objects (X-ray connections)
- Followup of GMRT targets: mainly redshift measurements
- MeerKAT absorption line survey target selection

## Spectrum of peculiar objects

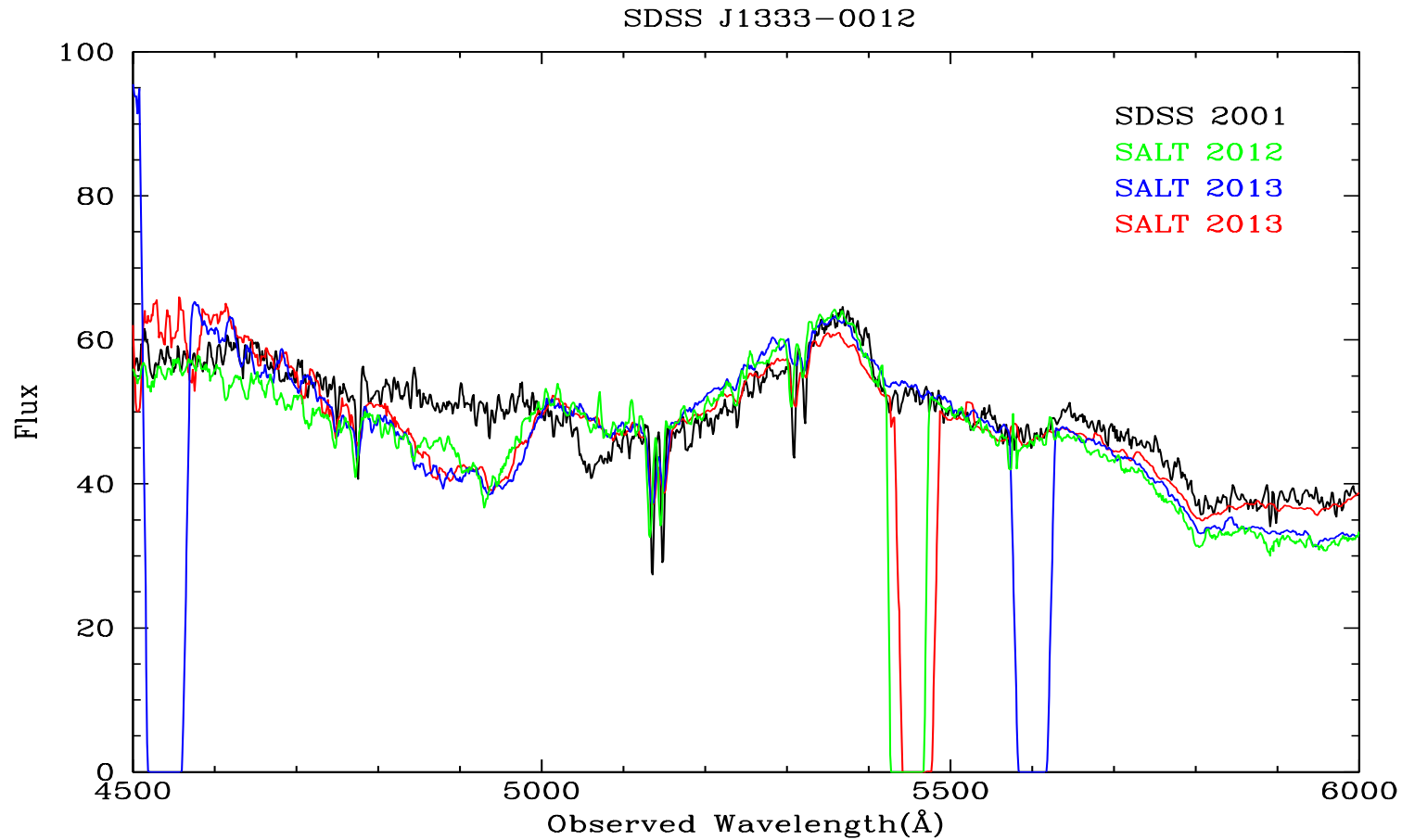


RS in preparation

# Variability of Low-ionization BAL QSOs



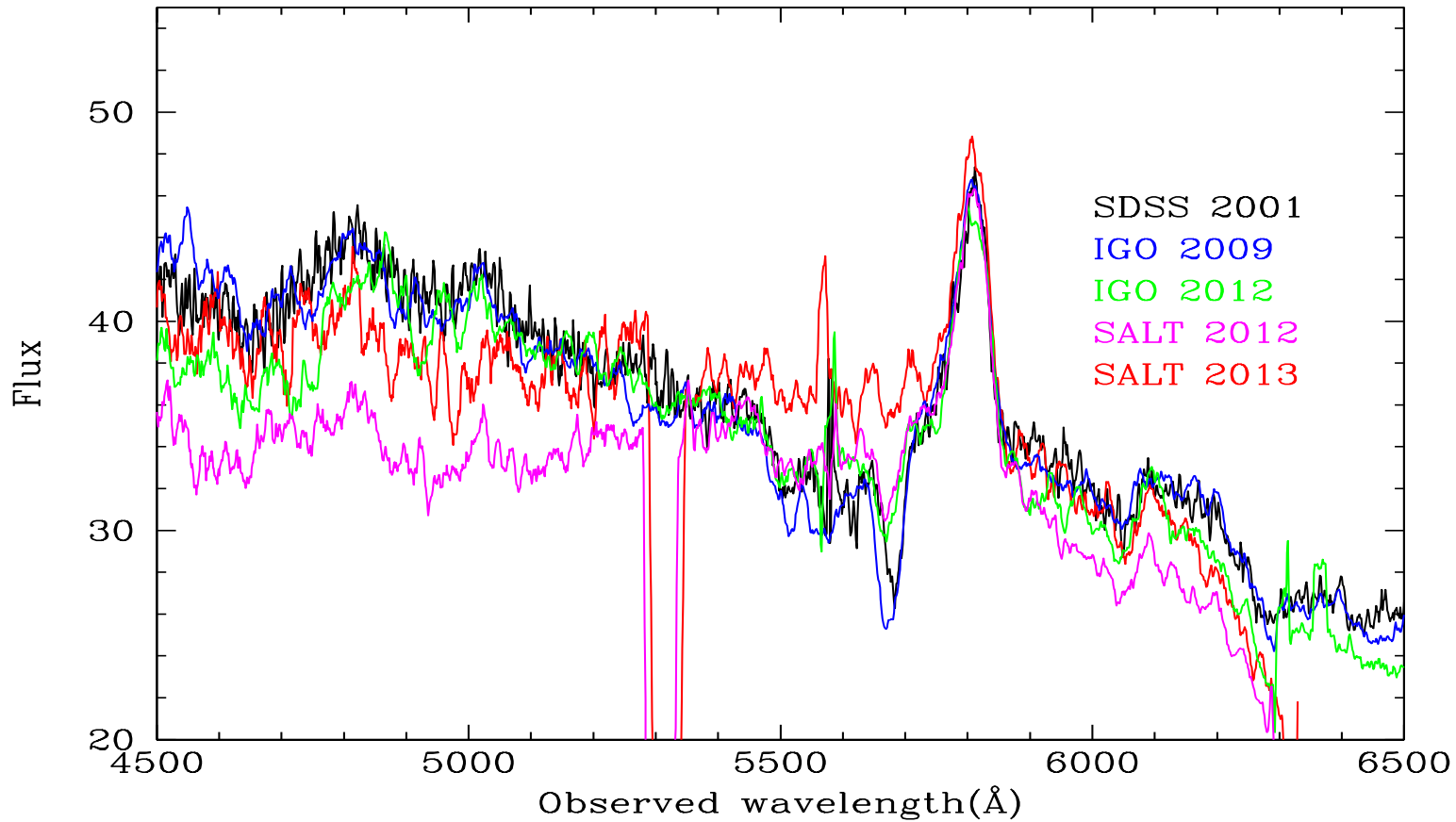
# Variability of Low-ionization BAL QSOs



Vivek et al. in preparation

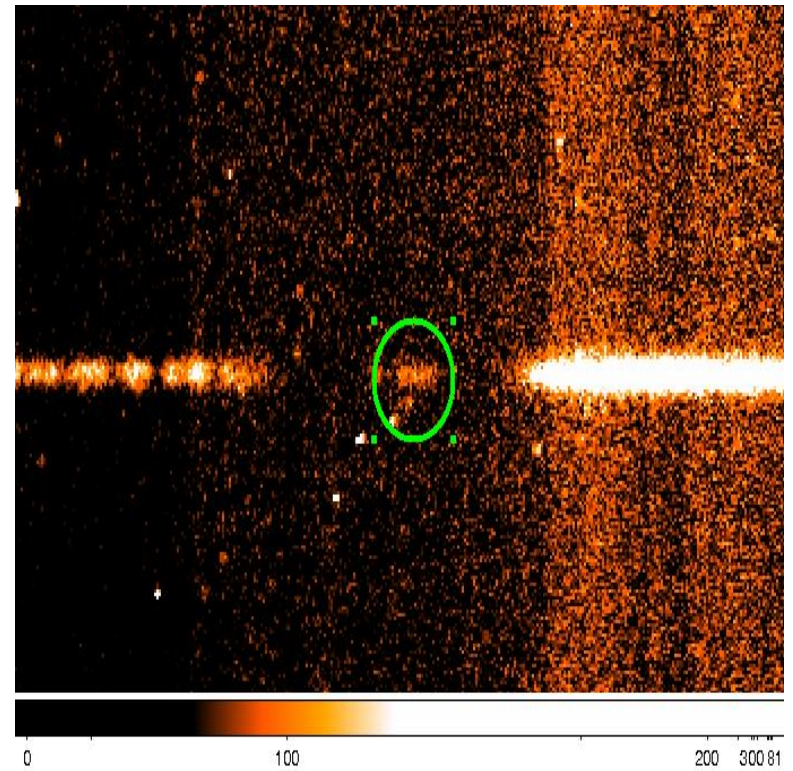
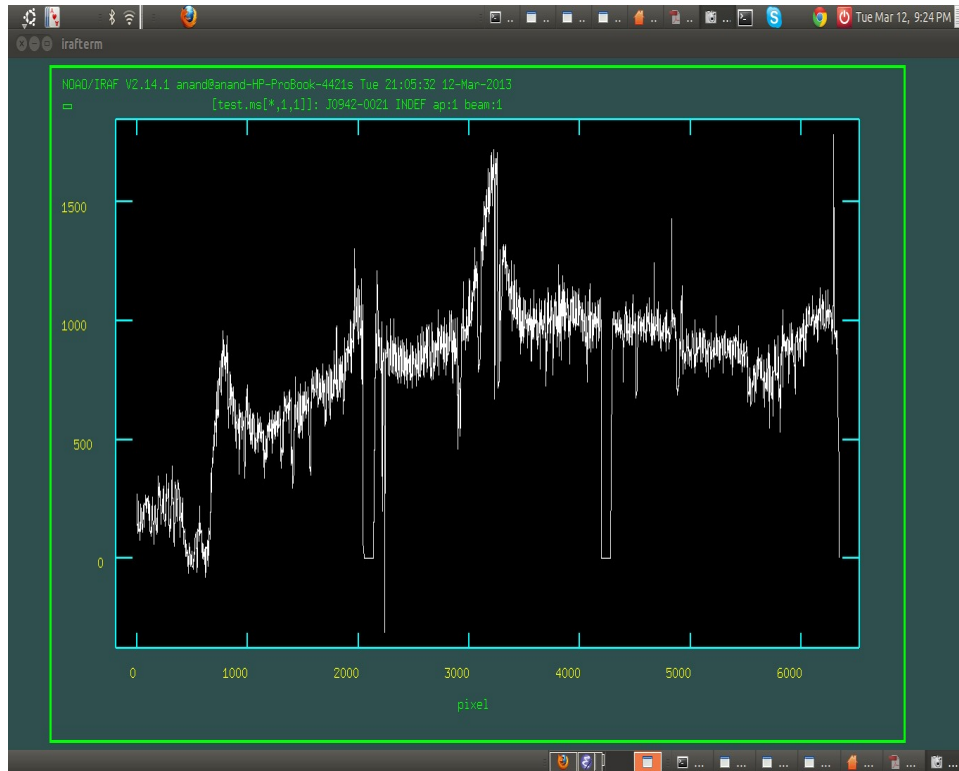
# Variability of Low-ionization BAL QSOs

SDSS J0149-0103

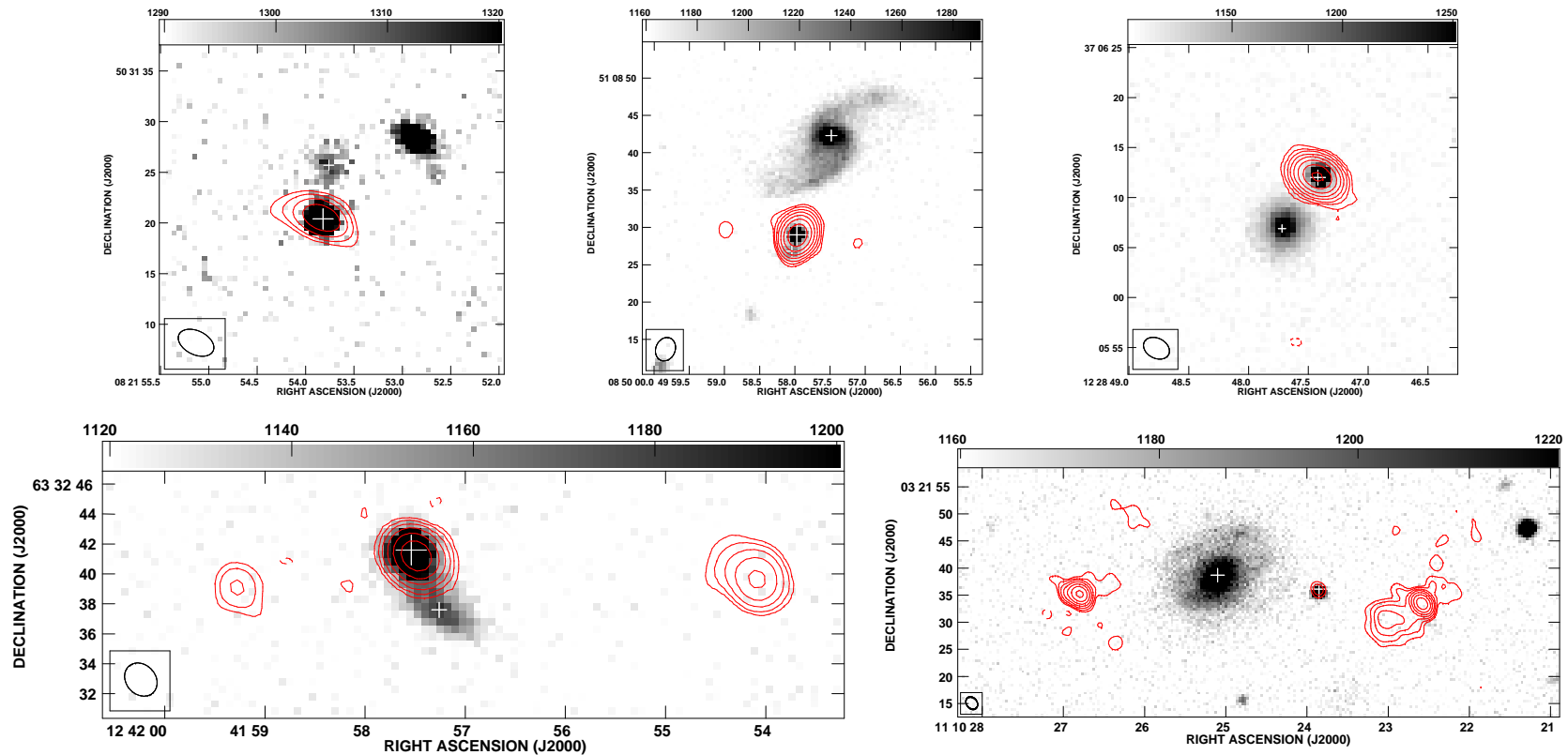


Vivek et al. in preparation

# Strong associated Ly- $\alpha$ emitter



# Cold HI 21-cm Absorption Line Survey (CHITALS)



Gupta, et al 2010



## Plans for HRS

- Commissioning proposal to observe the brightest southern QSO with  $z > 2$  having good quality UVES & HARPS spectra.
- Variation of fundamental constants
- Would like to carryout various IGM related projects with HRS.
- Chemical composition of vary metal poor halo stars.