

# Science Goals Beyond BAO

- Pulsar Search and Monitor
- Galactic Magnetic Fields
- Extragalactic Magnetic Fields
- Epoch or Reionization
- SETI
- Time Domain Studies
- 21 cm Absorption Systems (new)
- \*\*Meeting at FNAL October 2009\*\*

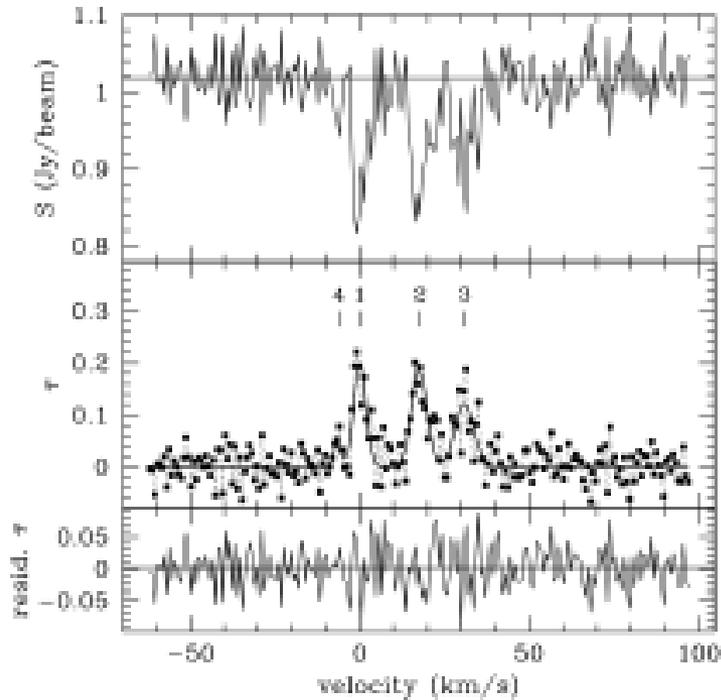
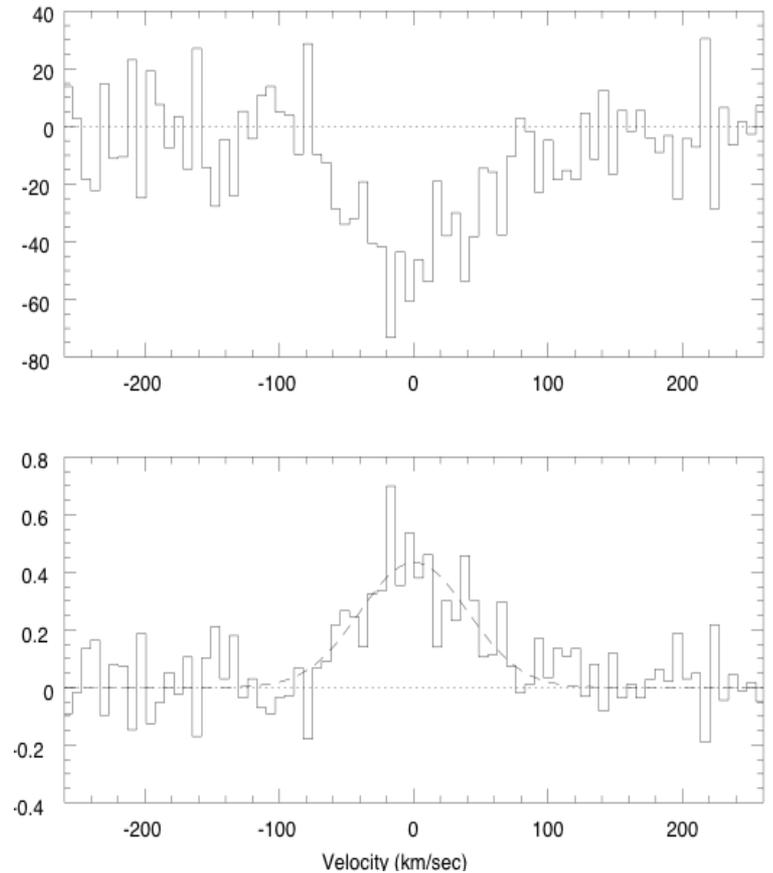


Fig. 1.— WSRT/DZB high resolution spectrum of the  $z = 0.3941$  H I 21cm absorber toward B 0248+430 at a channel spacing of 2.44 kHz, or a velocity resolution of  $0.81 \text{ km s}^{-1}$ .  $v = 0$  is placed at the metal-line redshift of  $z = 0.394$ . The top panel shows the original spectrum. The middle panel shows the optical depth of the lines, with the data points connected by a light dotted line. The heavy solid line shows the fit, and the centroids of the individual components listed in Table 1 are marked. The bottom panel shows residuals after the fit has been subtracted.

Lane and Briggs

Figure 1



Carilli