

## Global 21-cm Signal II – Global Signal Experiments

**Moderator: Rich Bradley** 

Senior Scientist / Research Engineer Director: Space Electronics Division, NRAO CDL

## **Presentations:**

12:20-12:35pm Preparing for the Moon with EDGES (Judd Bowman, ASU)

12:35-12:50pm Cosmic Twilight Polarimeter (CTP) (David Bordenave, NRAO)

12:50-01:05pm Status Report on DAPPER (Keith Tauscher, U. Colorado)

**01:05-01:15pm Discussion** 





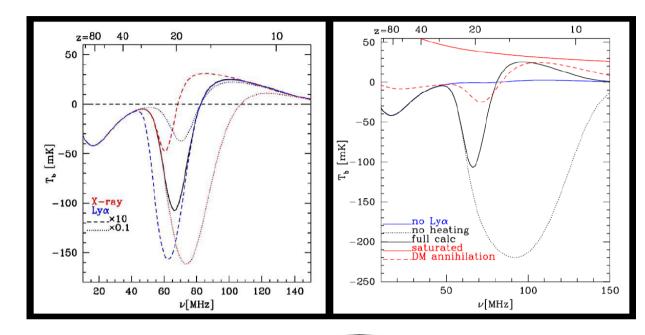
## **Measurement Challenges**

#1: The signal is relatively weak.

 $\sim 10$ 's of mK

#2: The signal is not well-defined.

Spectral shape depends on the astrophysics

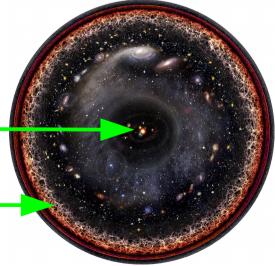


**#3: The signal is everywhere!** 

We are here!

Signal originates from here!







## **Measurement Challenges**

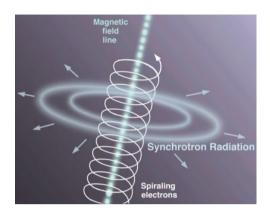
**#4: Foreground radiation** is strong in comparison.

Nearly a million times stronger!

Regions of polarized emission



Both from "us" and "them"





#6: The measurement corrupts the signal.

