

ALBATROS Instrument Paper Outline

Introduction

- Brief background on 21 cm cosmology.
- Primary science goal of the experiment.
- Few global signal experiments mentions.
- Low frequency imaging efforts to date.
- Limiting factors that have made measurements challenging so far (Ionosphere, RFI, etc.)
- The reason to keep trying to expand the experiment.
- Ionospheric model predictions.

Overview of the Instrument

- ALBATROS-EGG brief mention.
- ALBATROS block diagram with objectives of the instrument
- The LWA antenna discussion
- Back end electronics.
- Readout electronics.
- Solar power supply system.

Pathfinder Installations and Preliminary Observations

- Location, site discussion and challenges
- Explicit mention of ALBATROS-EGG and ALBATROS deployment this year and their differences.
- Observations thus far/results and plots

Future Work

- Marion observations in years to come.
- Anticipated resolution improvement from antennas to be deployed in all huts

Acknowledgements

References