1. Introduction
    (a) 21-cm Basics
    (b) History of the Intergalactic Medium
        i. Cosmic Microwave Background and the Epoch of Recombination
        ii. Dark Ages
        iii. Cosmic Dawn
        iv. Epoch of Reionization
        v. Galaxy Evolution (is there a formal name?)
    (c) Intensity Mapping
    (d) Other Possible Topics
        i. Dark Energy
        ii. BAO
2. SCI-HI Experiment
    (a) Overview
    (b) System Design
        i. Antenna
            A. Design Considerations
            B. Simulation
            C. Scale Model Testing
            D. Antenna Pattern and Impedence
            E. Construction
            F. Portability and Travel
        ii. Electronics
            A. Calibration Switch
            B. Amplifiers
            C. Impedence and Efficiency
            D. Filters and Attenuation
        iii. Data Processing (aka Computer)
            A. ADC (sampling, integration, etc)
            B. Power (AC vs DC, Consumption and Heating)
            C. Noise Generation
            D. Faraday Cage
    (c) Deployment and Site Testing

i. Overview
ii. Preliminary Site Testing
    A. Pittsburgh
    B. Zona del Silencio
    C. Algonquin
    D. Green Bank, West Virginia
iii. Isla Guadalupe
    A. Site evaluation (aka summit vs fishing village)
    B. Logistical Challenges
    C. Weather Impacts (both to experiment and to expeditions)
    D. Measurements
iv. Future Sites
    A. Isla Socorro
    B. Isla Clarion
    C. South Africa (Marion and Gough Islands)

(d) Data Analysis

i. Integration and Sampling
ii. Calibration Data
iii. Efficiency Data (VNA measurements)
iv. RFI
    A. Ionospheric effects
    B. FM band
    C. AM band
    D. Time variability
    E. Local RFI (aka village generator, spark plugs for trucks, etc.)
v. Calibration Factor (K)
    A. Johnson Noise Calibration
    B. Milky Way Galaxy (GSM) Modelling
    C. Daily Variance
    D. GSM vs ΔGSM
vi. Polynomial Fitting and Subtraction
vii. Signal Removal Check (simulation)

(e) Results

i. Day-to-Day differences
ii. Noise Contributions

3. GBT-IM Experiment

    (a) Overview

    (b) Observing

        i. Scan Strategy
        ii. Field Coverage
        iii. Data volume

    (c) Calibration

        i. Stokes Parameters
        ii. Absolute Flux Calibration
        iii. Full Mueller Calibration
        iv. Significant Mueller Parameters
        v. Time Variability

    (d) Results (discuss current paper results and impacts of larger dataset).