

SIRA Science Topics

Notes from May 13-14, 2003 meeting

- **e⁻ beams**
 - Sources
 - Reconnection/energization
 - EIT waves
 - Diagnostics
 - B-field topology
 - Density models
- **CME's and CME shocks**
 - Structure
 - Particle acceleration
 - Propagation
 - Dynamics
 - Alfvén speed profile of solar wind
 - Interaction w/ other CMEs
- **Coronal holes/streamers**
 - image boundaries
 - test field line geometry for source surface models
- **Quiet sun**
 - Variability
 - Density models, SDO
- **Sun-Earth CME tracking / Space weather**
 - Inner heliosphere conditions (for CME propagation)
- **Astrophysics**
 - Galaxy formation and evolution
 - Interstellar processes (cosmic rays)
 - Structure/properties of HII regions
 - SNR shocks
- **Magnetosphere**
 - Global response
 - Radio directivity of 2fpe
 - Radiation belts/synchrotron?
- **Ionosphere/radar**