

Workshop on Inner Heliosphere Physics
involving ACE, Wind, as well as SOHO & STEREO in-situ investigations

Nonantum Resort, Kennebunkport, ME, June 8-11, 2010

Breakout Session D, Thu, June 10, 900 - 1230

Pickup Ions and Building the Energetic Particle Reservoir

George Gloeckler, University of Michigan & Eberhard Möbius, University of New Hampshire

The session will feature discussions related to topics that have recently been debated on pickup ions and suprathermal tails:

- Sources and production of pickup ions
- Inner Source and heavy PUIs in the inner heliosphere
- Pickup ion cooling, re-distribution, generation of and interaction with waves
- Generation of suprathermal tails and contribution to the energetic particle reservoir

After a brief introduction with round table introduction and collecting proposals of additional brief contributions, we will continue with individual contributions roughly in the order of the topics mentioned above. The contributions are restricted to 10 minutes so that ample time for discussion is available. We encourage those of you who are working on issues related to the topics listed above and are not yet on the list for a confirmed presentation to either send us an E-Mail or volunteer a contribution on site. We are looking forward to a great discussion.

Confirmed Contributions (10 min + discussion):

- L. Didkowski et al. A Comparison of the SOHO/CELIAS Solar EUV Monitor (SEM) Absolute Solar EUV Irradiance with the First Irradiance Measurements from the SDO/EVE EUV Spectrophotometer (ESP)
- Ch. Drews et al. Observation of the Ne focusing cone at 1 AU with STEREO PLASTIC
- N. Schwadron & D. McComas Heliospheric ENAs as potential source for inner source pickup ions
- P. Bochsler & E. Möbius Evaluation of ENAs as potential source for pickup ions and suprathermal tails
- E. Möbius et al. Towards evaluation of the pickup ion cooling behavior
- E. Roelof Correct expression for energy loss under weak scattering
- L. Jian & C.T. Russell Observation and interpretation of pickup ion generated waves
- C. W. Smith, P. A. Isenberg et al..
Excitation of Low-Frequency Waves in the Solar Wind by Newborn Interstellar Pickup Ions H⁺ and He⁺ as Seen by Voyager at 4.5 AU
- G. Gloeckler et al. Production of suprathermal tails
- M. Popecki et al. Observation of suprathermal tails with STEREO PLASTIC
- {E. Roelof How "reservoirs" are formed--anisotropy signature, decay rates, etc.
2nd presentation, as time permits}