SPACE AND COSMIC RAY PHYSICS SEMINAR

University of Maryland
Computer & Space Sciences Building, Room 2400
4:30 PM Monday, November 8, 2004
Coffee, Tea & cookies 4:00-4:30 PM

David Ruffolo

Mahidol University, Bangkok, Thailand

Precision Modeling of Solar Energetic Particle Transport

The fundamental processes of interplanetary transport of solar energetic particles (SEP) are sufficiently well understood to perform precision modeling of observed time profiles. We present analyses of neutron monitor data to determine parameters of interplanetary scattering and the injection profile near the Sun. The timing of relativistic SEP emission is compared with other timing information related to the flare and coronal mass ejection. In related issues, we discuss the uncertainty in the injection start time inferred by linear fitting of onset time vs. 1/v; non-diffusive perpendicular transport and dropouts; and the spectral rollover of energetic storm particles.

http://space.umd.edu/seminars

Sponsored by: Department of Physics and the Institute for Physical Science and Technology, University of Maryland. For information call Matthew Hill at (301) 405-6237 or go to the website given above. (A PDF file of this announcement is available for download and posting it at your institution is encouraged and appreciated.)

For free parking please park in lot DD or anywhere on levels 1-2 in lot B (the big parking garage) after 4:00 pm. Make sure that you park in a spot WITHOUT a parking meter. More parking information is at the website.