

SPACE AND COSMIC RAY PHYSICS SEMINAR

University of Maryland
Computer & Space Sciences Building, Rm 2400
4:30 PM Monday, September 15, 2003
Tea & cookies 4:00-4:30 PM

Peter Gallagher

NASA Goddard Space Flight Center, Greenbelt, Maryland

Recent Insights in Flares and CMEs Using RHESSI

Since its launch in February 2002, the Reuvan Ramaty High Energy Solar Spectroscopic Imager (RHESSI) has provided a new diagnostic of high energy phenomena in solar flares and CMEs. RHESSI obtains high resolution images and spectra at 3 keV - 17 MeV, a critical energy regime for understanding electron (and ion) acceleration, propagation, and precipitation. In this talk I will review the RHESSI instrument, its current status, and discuss some recent results regarding eruptive flares and CMEs. In particular, CME initiation, current-sheet formation, post-flare loop formation, and a number of other phenomena will be discussed in the context of observations from RHESSI, TRACE, and SOHO.

Sponsored by: Department of Physics, University of Maryland, and the Institute for Physical Science and Technology, University of Maryland
For information call Matthew Hill at (301) 405-6209 or go to the following website
http://space.umd.edu/seminars/Fall_2003_Seminar.html

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