

# SPACE AND COSMIC RAY PHYSICS SEMINAR

*University of Maryland  
Computer & Space Sciences Building, Room 2400  
4:30 PM Monday, April 25th, 2005  
Coffee, Tea & cookies 4:00-4:30 PM*

**Michael R. Collier**

NASA Goddard Space Flight Center  
Greenbelt, Maryland

## **Asymmetries Toward Higher Ecliptic Longitudes than the Nominal Upstream Direction in Twelve Heliospheric Data Sets**

I will present twelve heliospheric data sets from ten different spacecraft which all show evidence for a heliospheric asymmetry. Furthermore, all these data sets show the asymmetry in the same direction, towards higher ecliptic longitudes than the nominal symmetry axis at  $74^\circ / 254^\circ$  ecliptic longitude, and about the same magnitude, generally between  $10^\circ$  and  $30^\circ$ . One possible explanation is the presence of a secondary stream of heliospheric neutral fluxes arriving from this direction.

**<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.