

COME TO THE
LABORATORY FOR ATMOSPHERIC AND SPACE PHYSICS
FOR OUR NEXT PUBLIC LECTURE:

DUSTY PLASMAS IN THE SOLAR SYSTEM

PROFESSOR MIHALY HORANYI

TUESDAY, MAY 6TH AT 7:30 PM

LASP AUDITORIUM 299

THE SUN. THE PLANETS. MOONS. AND DUST? DUST IS EVERYWHERE! IT INHABITS THE SPACE BETWEEN PLANETS, FORMS RINGS, AND COMETARY TAILS. THE MOTION OF A DUST GRAIN IS INFLUENCED BY GRAVITY, SOLAR RADIATION AND ITS PLASMA ENVIRONMENT, CREATING A COLLECTION OF ELECTRICALLY CHARGED GRAINS THAT FORM DUSTY PLASMAS. DUSTY (OR COMPLEX) PLASMAS REPRESENT THE MOST GENERAL FORM OF PLASMAS IN NATURE, IN THE LABORATORY, AND IN INDUSTRIAL PROCESSES. THIS TALK WILL START WITH THE DESCRIPTION OF SIMPLE LABORATORY EXPERIMENTS, AND GIVE A TOUR OF SURPRISING DISCOVERIES IN THE SOLAR SYSTEM THAT ARE BEST EXPLAINED BY RECOGNIZING THE ROLE OF DUSTY PLASMAS.



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