







报告题目:Cluster highlights and
preparation for SMILE mission
报 告 人: Dr. Philippe Escoubet
ESA/ESTEC
(欧洲航天局欧洲空间科学技术
中心,位于荷兰)
报告地点: 九章709室(空间天气室会议室)
报告时间: 2019年9月4日(周三)上午09:30
报告时间: 2019年9月4日(周三)上午09:30

Dr. Philippe Escoubet (简介)

欧洲航天局(ESA)空间科学探测项目科学家,Cluster星簇卫星探测计 划项目科学家,中欧合作地球空间双星探测计划(DSP)欧方项目科学 家、中欧合作SMILE卫星探测计划欧方项目科学家,现任国际ILWS主席, ESA空间物理项目协调人,国际著名空间物理学家,空间卫星任务/计划 专家,在空间物理研究领域,共发表论文200余篇,引用次数达到一千 余次,对空间科学探测的发展做出了巨大贡献,对中欧空间科学合作做 出了巨大贡献。

报告摘要

After 19 years in space, the Cluster mission is continuing to deliver groundbreaking results. The Cluster mission, made of 4 identical spacecraft carrying each 11 complementary instruments, aimed to study 3-D key processes in space plasmas. The separations between the 4 Cluster spacecraft have been varied more than 70 times from a few km up to 36000 km to address the various scientific objectives. The smallest separation is smaller than any MMS spacecraft separation, so far. I will present the Cluster obtained science highlights on, such as solar wind, bow shock, turbulence in magnetosheath, K-H waves, magnetic reconnection in magnetopause, lobe reconnection, aurora, ionospheric outflows and plasmaspheric leak, and so on. And more important, I will also present some on the new CAS-ESA SMILE mission which will combine in situ and remote sensing instruments to observe the dayside magnetosphere and aurora in a unique way. Examples of common and complementary observations will also be shown for the Cluster and SMILE.