



**NCU-GISS**

國立中央大學太空科學研究所  
Graduate Institute of Space Science

## 專題演講

# Infrared spectroscopy of a planetary atmosphere: a probe into the ignorosphere

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Speaker : **Pierre Drossart** 教授

Senior Director of Research, CNRS (National Center for Scientific Research),  
France

Time : 106 年 2 月 23 日 星期四 10:00

Place : 健雄館(科四館) S4-917 教室

摘要/Abstract :

The upper atmosphere of a planet is a key transition region between the lower atmosphere in convective or radiative equilibrium and the outer space where radiative escape balance the received solar energy. It is the seat of various and complex physical processes, non equilibrium thermodynamics, gravity wave dissipation and photochemistry. It is unfortunately difficult to observe, due to the low column density of radiatively active constituents, and the overwhelming thermal or reflected radiation from deeper layers in the atmosphere. From a series of space observations in infrared imaging spectroscopy from various missions dedicated Jupiter, Saturn, Titan, Mars or Venus, including the most recent instruments, a general overview of these phenomena will be given, with unexpected and beautiful images revealing these atmospheric layers. The extension to exoplanets will be the next step, which will be accessible from future space observations from NASA/ESA James Web Space Telescope, or the ESA/M4 Ariel mission under investigation.

※歡迎聽講※

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