



## 專題演講

# Constraints on planetary interiors from laser altimetry

Speaker : **Robin Thor**

Max Planck Institute for Solar System Research

Time : 107 年 10 月 12 日 星期五 15:00-16:00

Place : 健雄館(科四館) S4-811 教室

摘要/Abstract :

A planet's interior is the key to understanding its formation and evolution. Gaining insight about planetary interiors is only possible by constructing physical models and constraining them by measurements. One measurable quantity to constrain interiors is the tidal Love number  $h_2$ . Here, we further develop and apply a novel retrieval method based on a simultaneous inversion for the static topography and the tidal signal in order to take full advantage of the enormous data set from the Lunar Orbiter laser altimeter. Our result is in agreement with previous estimates from laser altimetry using crossover points of ground tracks. By the application to the lunar tide, we also demonstrate the potential of the method for future altimetry experiments at other planetary bodies.

## 與天文所共同合辦

※歡迎聽講※

~請聽講者提早入座~