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

專題演講

Polar cap area saturation, depending on the IMF and solar wind dynamic pressure-new results from magnetogram inversion technique.

Speaker： **Prof. Vladimir Mishin**

Institute of Solar-Terrestrial Physics, Irkutsk, Russia

Time： 106 年 12 月 8 日 星期五 15:00

Place： 健雄館(科四館) S4-817-1 教室

摘 要/Abstract：

The polar cap saturation is shown to occur when the solar wind (SW) density or dynamic pressure and vertical (IMF) component rise. The saturation is assumed to be caused mainly by finite magnetosphere compressibility — stopping the magnetopause compression due to a rapid earthward growth of the geomagnetic field. We have found signs of saturation depending on the northward IMF component and assume that the IMF-dependent saturation exists for both signs of its z-component due to an increase in the total pressure in the magnetosheath. Moreover, the southward IMF component causes additional compression of the magnetopause and increase in the saturation level of the polar cap area.

※歡迎聽講※

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