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Ueno, Atsushi Yamazaki, Kazunori Uemizu, Shingo Kameda, Fuminori Tsuchiya, Masato Kagitani, Naoki Terada and Yasumasa Kasaba; 1. Introduction; 2. Science Objectives; 3. Mission Scenario; 4. Instrumental Overview

5. Expected Signal-to-Noise Ratio (SNR) and Exposure Time6.

Summary; Acknowledgments; References; Slitless Spectroscopy of Small Solar System Bodies on a Dark Cloud Curtain F. Yoshida, M. Yagi, Y.

Komiyama, F. Nakata, H. Furusawa, T. Ohno, S. Okamura and T.

Nakamura; 1. Introduction; 2. Observational Strategy and Image Acquisition; 3. Detection of Moving Objects; 4. Grism Spectra; 5.

Summary; References

Plan for Observing Magnetospheres of Outer Planets by Using the EUV Spectrograph Onboard the Sprint-A/Exceed Mission Fuminori Tsuchiya, Masato Kagitani, Naoki Terada, Yasumasa Kasaba, Ichiro Yoshikawa, Go Murakami, Kouichi Sakai, Tatsuro Homma, Kazuo Yoshioka, Atsushi Yamazaki, Kazunori Uemizu, Tomoki Kimura and Munetaka Ueno1.

Introduction; 2. Observation of Jupiter's Magnetosphere by the EXCEED Mission; 2.1. Overview of EXCEED mission; 2.2. Lessons learnt from the Cassini and Galileo observations; 3. Other Observation Targets; 4.

Summary; Acknowledgments; References

Lunar Topography by Laser Ranging Instrument Onboard Chandrayaan-1 K. V. S. Bhaskar, J. A. Kamalakar, A. S. Laxmiprasad, V. L. N. Sridhar

Raja, Adwaita Goswami, K. Ravi Kumar and K. Kalyani1. Introduction;

1.1. Mission overview; 1.2. LLRI instrument overview; 2. Science and Instrument Objectives; 2.1. Science objectives; 2.2. Instrument

objectives; 3. LLRI Instrument Design; 3.1. Principle of operation; 3.2.

Instrument; 3.2.1. Laser Transmitter; 3.2.2. Receiver optics; 3.2.3.

Receiver electronics; 4. Data Processing; 5. Conclusions;

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Investigating Lunar Central Crater Peaks with the SIR-2 NIR Reflectance Spectrometer on Chandrayaan-1 Urs Mall, Roberto Bugiolacchi, Megha Bhatt, Jean-Philippe Combe, Satadru Bhattacharya and Susan Mckenna-Lawlor

Sommario/riassunto

This invaluable volume set of Advances in Geosciences continues the excellent tradition of the Asia-Oceania scientific community in providing the most up-to-date research results on a wide range of geosciences and environmental science. The information is vital to the understanding of the effects of climate change, extreme weathers on the most populated regions and fastest moving economies in the world. Besides, these volumes also highlight original papers from many prestigious research institutions which are conducting cutting edge studies in atmospheric physics, hydrological science and water
