Japan Geoscience Union Meeting 2014
(28 April - 02 May 2014 at Pacifico YOKOHAMA, Kanagawa, Japan)

PPS23-P01 Room:Poster Time:May 2 16:30-17:30

Development of ILOM using DOE and situation of trial manufacturing of DOE

KASHIMA, Shingo[1*] ; ARAKI, Hiroshi[1] ; HANADA, Hideo[1] ; TSURUTA, Seiitsu[1] ; SUZUKI, Hirofumi[2] ; YASUDA, Susumu[3] ; UTSUNOMIYA, Shin[3]

[1]RISE Project Office, National Astronomical Observatory of Japan, [2]Mechanical Engg.,Chubu University, [3]Japan Aerospace Exploration Agency

We have a plan to install the photo-zenith telescope on the moon as part of a next SELENE project. The purpose is to explain the internal structure and the origin of the moon by measuring the small vibration and movement with very high accuracy. In this presentation, we show the development of ILOM using DOE that actualize the very high performance, i.e.,1 mas, in the severe thermal condition of the moon and show the situation of the trial manufacturing of DOE that is the key technology of this telescope.

Keywords: ILOM, DOE, SELENE