



New Radio Observation of the Moon at L Band

Xizhen Zhang¹, Yan Su¹, Junduo Li¹, A. Gray², T. Landecker²

1: National Astronomical Observatories, CAS

2: Dominion Radio Astrophysical Observatory, Canada

We present results of the new radio observation of the Moon at L band with the synthesis telescope of the Dominion Radio Astrophysical Observatory (DRAO ST). The resolution and temperature sensitivity of the observation are $120'' \times 60''$ and 2 K respectively. The total intensity emission and the polarization emission obtained by this observation are compared with the data of the Lunar Orbiter CE-1 to study properties of the lunar regolith such as depth and dielectric constant.