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Development of the Methods for Calibrating Data of Spectral Profiler onboard SELENE

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Spectral Profiler (SP) onboard SELENE (KAGUYA) orbiting the Moon has three detectors; VIS, N1 and N2. N2 covers the longest wavelength bands in these detectors. Night-time observation data were split into dawn side and dusk side and correlated with temperature by simple linear regression to estimate dark values. Using the improved dark values, we obtained calibration results partly better than the those of previous study by applying appropriate regression equations for individual observation data.