

Lunar evolution and impact history revealed by the cratering records of the Moon

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Unraveling the impact history in the Earth-Moon system is essential to understand the early evolution of the Moon and the dynamics of the solar system. The cratering records of the Moon preserve the impact history in the solar system during the past 4.5 Gyr. By employing Kaguya LISM data and LRO NAC data we have investigated the temporal variation in impact flux in the inner solar system and the volcanic history of the Moon from the crater statistics. In this talk, I will review the statistical studies of the cratering records of the Moon and discuss the geological evolution of the Moon based on its findings.

Keywords: Moon, Impact, Crater, Chronology

