

Permittivity characteristics of lunar and asteroid regolith

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Permittivity is a key for understanding the surface/subsurface of celestial bodies. It depends on several parameters such as bulk density, chemical composition, temperature, water-ice content, and so on. While it is difficult to distinguish these parameters, measuring the permittivity of regolith using appropriate strategies allows us to obtain this information. In this talk, we present laboratory measurement results of lunar and asteroid regolith simulants and propose a strategy to obtain information on relevant parameters.

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