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Room:Convention Hall

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Blackbody radiation in impact flash

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The highvelocity impact like the impact of the meteoroid to the surface of the moon gives the flash. There are the one that originates momentarily of the collision and the one from the generated impact vapor cloud in the flash. If the flash of the vapor cloud is a blackbody radiation, the temperature of the vapor cloud can be presumed from the spectrum. The truth has not been understood yet though the flash of the vapor cloud might be assumed to be a blackbody radiation. In the present study, photometry is done by the highvelocity impact experiment in some wavelength bands, and it is examined whether the flash of the impact vapor cloud is a blackbody radiation.

Keywords: Highvelocity impact, Impact flash, Vapor cloud, Blackbody radiation, Lunar impact flash