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Time:May 26 16:15-18:45

Constructing a new Venus cloud model using a multiple scattering method

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Venus clouds lie at an altitude from 45km to 90km in the Venus atmosphere and cover the whole planet. It is relevant that the Venus clouds consist of main cloud deck which composed of upper, middle, and lower regions and a tenuous haze above and below. Before now, several cloud models are constructed, but it is relevant that there are several problems in these cloud models. For example, when using a cloud model made by Pollack(1993), a big difference of cloud height is occurred along the lines of longitude which is not matched past observations.

To resolve these problems, I will make a new cloud model using CO₂ spectroscopic data performed by using IRTF at Mauna Kea with CSHELL spectrometer.

Keywords: Venus, cloud model