

Modelling the phase variation of 67P dust color temperature observed with VIRTIS-H

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We analysed infrared spectra of the dust continuum obtained with VIRTIS-H from 3 June to 29. Oct 2015. In the phase angle range 50–120 deg, a decrease of the color temperature with increasing phase angle was observed at a rate of ~ 0.3 K/deg. Using a model of dust thermal emission, we show that this is consistent with the presence of large porous particles, with low thermal inertia, presenting a significant day-to-night temperature contrast.