

Thermophysical evolution of the the Imhotep region

Maria Teresa Capria, A. Zinzi, M. Pajola, L. Penasa, F. Tosi, F. Capaccioni, G. Filacchione, M. Ciarniello, A. Raponi, M. C. De Sanctis, M. Formisano, N. Ookay, and the VIRTIS and OSIRIS teams

Abstract

The huge amount of data on the comet 67P/CG gave us the opportunity to test and improve in an unprecedented way the models describing the thermophysical properties of cometary nuclei and their evolution. Using this kind of models and comparing their results with the available observations, it is possible to determine the composition and properties of the surface and how they change with time.

In this talk the results will be shown of the analysis, performed on VIRTIS and OSIRIS data, of the evolution of the surface features in the Imhotep region related to the presence/absence of ice.