

Surface properties of small icy bodies

mercredi 18 mai 2016 16:15 (45 minutes)

The study of the small bodies that orbit the Sun beyond Neptune, the transneptunian objects, has completely changed our view of the Solar System. The last decade, a huge quantity of data has been obtained by ground large telescopes and by space missions.

Various surface compounds have been detected, including ices of water, methane, nitrogen, methanol, ethane and ammonia. An overview for all available surface properties on TNOs and Centaurs will be presented analyzing the ice content with respect to the physical and dynamical characteristics. The last results on the asteroid (1) Ceres by DAWN mission will be also presented as well a comparison with the small icy bodies of the Solar System.

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Classification de Session: The physics of comets

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