

Im Rahmen des Physikkolloquiums spricht

Dr. Matthias Läuter

Zuse Institut Berlin

über

Thermophysical properties of comets

Abstract:

An important tool to assess the composition and the spatial origin of cometary material is the analysis of its trajectory reflecting gravitational acceleration due to solar system bodies complemented by non-gravitational accelerations (NGA).

For the comet 67P/Churyumov-Gerasimenko the ESA Rosetta mission provided detailed information about the sublimation of ices from a Jupiter family comet.

I discuss the analysis of the composition of the ices based on modelling the gas coma around the comet and the orbit determination in connection to thermophysical models of the nucleus.