

Latest news on the modeling of meteor showers

J. Vaubaillon (1), A. Sekhar (2), D. Asher (2), Neslusan L. (3), Hajdukova M. (3), Segon D. (4), Rudawska R. (5)
(1) Institut de Mecanique Celeste et de Calcul des Ephemerides, France (vaubaillimcce.fr) (2) Armagh Observatory, N.Ireland, UK (3) Astronomical Institute of the Slovak Academy of Sciences, Slovakia (4) Croatian Meteor Network, Croatia (5) European Space Agency, Noordwijk, The Netherlands

Abstract

This talk will provide a review of the techniques used for the modeling of meteoroid streams in the Solar System. New features induced by resonances will be presented. Consequences for the forecasting of the meteor showers will be presented. Similarly, the multiplication of meteor orbit determination allows for the finding of new parent bodies. Exploration of the past allows us to better know the today Earth meteoroid environment. Special focus will be provided for the Perseid stream as well as comet C/1917 Mellish. The finding of new parent bodies is an ongoing process and latest confirmed bodies will be presented.