



Mini-catalogue of kinematical and photometrical parameters for some TV meteors in 2002

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Kinematical and photometrical parameters for 7 meteors belonging to Perseid shower and 29 meteors belonging to Leonid shower in 2002 are presented. The observations were carried out with the help of TV systems equipped by high-sensitive electronic transmitting tubes of super-isocon type and wide-angle lenses, from two points disposed at distance of 54 km between them. Due to weather conditions we were able to carry out the observations for only one night in August during Perseid meteor shower activity and for one night in November during short-time Leonid meteor storm.

Algorithms of the processing and software are briefly described. Photometry of the meteors was done using the results of the experiment “artificial meteor” realized with the help of moving star images. For the determination of errors for all kinematical parameters we used the statistical approach with Monte-Carlo method application. Reported earlier trajectory parameters for the Leonid meteors were recalculated with the higher precision by means of the combination of measurements done separately in odd and even half-fields of TV frames.

Parameters of meteor trajectories in Earth’s atmosphere, heliocentric orbital elements and curves of brightness of the meteors are presented. An analysis of observational data and its comparison with results of other authors is done.