

Light curves of video meteors and dust-ball model

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Light curves of the faint meteors show a great variability, even among the meteors belonging to the same meteor shower. For a given mass we can find meteors with symmetrical light curves as well as meteors with the light curves, which are skewed to both the beginning and the end of the meteor luminous trajectory. The structure of the meteoroid determines the meteor light curve. The dust-ball model allows us to simulate the ablation of the meteor and the light curve production. Comparison of the simulated and observed light curve provides us with the opportunity to decide, how the meteoroid characteristics influence the meteor light curve shape.