

Search for faint meteors on the orbits of Příbram and Neuschwanstein meteorites

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We analysed the faint meteors detected on the orbits close to the orbits of Příbram (Ceplecha, 1961) and Neuschwanstein (Spurný et al., 2003) meteorite falls and investigate the possibility that they belong to the stream (Pauls and Gladman, 2005). Several meteors with lower orbital similarity criteria to Příbram and Neuschwanstein meteoroids were found. The atmospheric trajectories and heliocentric orbits of the detected meteors were analysed to determine whether they are members of the same shower. An orbital evolution model was applied on a certain number of cloned particles to investigate their possible connection with the meteorite stream. Statistical tests were conducted to determine if such small sample of the orbits is similar by chance or if the stream is real. It was found that from the observational as well as the theoretical point of view it is impossible to prove the existence of faint meteor shower connected with the Příbram and Neuschwanstein meteorite stream.

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