

Note on a New Approach to Clarify Passed Cometary Activities of Parent Objects of Meteor Showers

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Recent applications of the so-called dust trail theory provide us not only a new method to expect the shower activities in the future, but also to explore the past history of cometary activities of relatively dormant objects. As shown in the presentation by Sato et al. (2006), the historical display of 1956 of the Phoenicids indicates that the parent object, 2003 WY25, was active enough to supply meteoroids, episodically or continuously, from late 18th through early 18th century, while it seems to be dormant in recent years (Jewitt 2006). We will present possibilities of such a new approach to clarify the activity history of parent objects by inspecting both the geometrical situation of the dust trails and the Meteor shower activities.