

Dust Tail of Comet 9P/Tempel 1 after the Deep Impact: Prediction

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The Deep Impact mission may cause the drastic change of the morphology of the target comet 9P/Tempel 1. The impact-origin dust tail may be different with the regular dust tail. We show some examples of the possible impact-origin dust tail observed so far. Based on the parameters obtained from the past examples, we performed a simulation of the time variation of the dust tail after the impact due to the new ejection of the dust particles by using the synchrone-syndyne theory. In this contributed talk, we predict the development of the dust tail due to the impact experiment.

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