

Thursday, March 16, 2006
POSTER SESSION II: SPECIAL SESSION:
RESULTS FROM THE DEEP IMPACT MISSION
7:00 p.m. Fitness Center

Belton M. J. S. Thomas P. C. Carcich B. Crockett C. J. Deep Impact Science Team

The Spin State of 9P/Tempel 1 [#1487]

A high precision spin state for the nucleus of 9P/Tempel 1 is determined. The spin is fully relaxed and in the direct sense. The pole is a RA, Dec (J2000) = 293.8, +72.6° with an absolute uncertainty of 5°. The diurnal spin period in 1.6976 ± 0.00006 d.

Li J.-Y. A'Hearn M. F. McFadden L. A. Sunshine J. M. Crockett C. J. Farnham T. L. Lisse C. M. Thomas P. C. Deep Impact Science Team

Deep Impact Photometry of the Nucleus of Comet 9P/Tempel 1 [#1839]

We studied the disk-resolved photometry of comet 9P/Tempel 1 from Deep Impact images. The surface of Tempel 1 is dark and red. Both albedo variations and color variations are very small.

Mori Y. Sekiguchi T. Sugita S. Matsunaga N. Fukushi H. Kaneyasu N. Kawadu T. Kandori R. Nakajima Y. Tamura M.

Near-IR Monitoring Observation of Comet 9P/Tempel 1 [#2458]

We performed a long-term observation of comet 9P/Tempel 1, the target of NASA's Deep Impact mission using the near-IR camera on a 1.4 m telescope. We present the observed change of the comet activity and the motion of the dust ejected by the impact.

Capria M. T. Cremonese G. De Sanctis M. C. Boattini A. Epifani E. Lorenzi V. Saba L. Licandro J.

High Resolution Monitoring of 9P/Tempel 1 with SARG at La Palma During the Flyby of Deep Impact [#1275]

Comet Tempel 1 was observed before and after the impact with the echelle spectrograph SARG on the TNG telescope in La Palma. We are cataloguing the lines visible in the spectra and comparing the spectra between them.

Wellnitz D. D. Deep Impact Science Team

Observations of the Inner Coma and Activity near the South Pole on the Nucleus of Comet 9P/Tempel 1 [#2465]

Surprisingly, one of the largest areas of near-surface coma enhancement of comet 9P/Tempel 1 appears to be associated with the area near the south rotational pole. In this region there are diffuse brighter areas which look like they may be associated with activity on the unilluminated surface.

Ipatov S. I. A'Hearn M. F.

Velocities of Material Ejected from Comet Tempel 1 [#1462]

The brightest material ejected from Comet Tempel 1 after the collision of Deep Impact with the comet moved with velocity ~100 m/s, but velocities of some particles exceeded several km/s.