

**Report on the Experiments during Total Solar Eclipse of October 24, 1995**

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**Abstract**

The several experiments carried out by the M P Birla Planetarium were undertaken by two teams of scientists. One stationed south of Calcutta and the other at Diamond Harbour, near Calcutta.

The team at Allahabad moved the Celestron 14 Telescope with all the auxiliaries and filters as well as the CCD camera from Calcutta to a site about 25 kilometers south of Allahabad. The CCD images of the corona were taken through a polarizer fitted in front of telescope. The images were taken in two parts with the polarizer turned through a 60 degree angle.

The second team stationed at Diamond Harbour set up the camp with a number of telescopes, telephoto lenses attached to cameras and video movie cameras. This camp also gave facilities to the films division unit of the Government of India to cover the Eclipse through a 35 mm movies. The recorded photographs of the diamond rings and the corona, as well as the video images are being analyzed and studied. The recordings on the video will be analyzed for the streamers and details of the corona taking frame by frame and they will be compared with the several individual frames on the 35 mm movie.