

## I. PHYSICS

### Astrophysics (Shadow Bands)

#### PHOTOELECTRIC MEASUREMENTS OF SHADOW BANDS

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AN experiment to measure the various parameters of shadow bands which appear for a very short time before and after the eclipse was set up at Raichur on February 16, 1980. Eight photo-detectors were arranged in a 'T' shaped array to obtain information speed, direction, width and separation of shadow bands. Observations were recorded on a four channel *B* and *K* recorder.

**Keywords :** Photoelectric Measurements; Shadow Bands.

Since then data have been digitized using a 12 bit A/D converter and information is transferred to a 9 track magtape. An interface to PDP 11/34A was built and was used to transfer the data on magtape.