

## I. PHYSICS

### Astrophysics (Ionosphere)

## MEASUREMENTS OF FIELD STRENGTHS OF LONG WAVE RADIO AND VLF ATMOSPHERICS

S. N. MITRA, F.N.A.

*Department of Electronics and Communication Engineering, University of Roorkee, Roorkee, U.P.*

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THE aims of the experiments were to measure field strengths of long wave radio and VLF atmospherics during the Solar Eclipse of February 16, 1980.

**Keywords :** Field Strengths; Long Wave Radio and VLF Atmospherics.

### EXPERIMENTS

THE following experiments were conducted :

(1) Continuous recording of field strength of radio Alma-ata, a USSR station operating on 182 KHz.

(2) Continuous recording of field strength of another USSR Long-wave station Radio Tashkent working on 164 KHz.

(3) Recording of fading of beyond-line-of-sight TV signal from Delhi.

(4) Continuous recording of VLF Atmospherics on 27 KHz.

### RESULTS

We have found distant and unambiguous effects of the solar eclipse on 182 KHz experiment and on the recording of long distance TV signals.

### LOCATION

Roorkee. Long  $77^{\circ} 53'E$  Lat  $29^{\circ} 51'N$ .