

## I. PHYSICS

**Astrophysics (Solar Corona)**

### POLARIZATION OF THE CORONA

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The experiment was designed to determine the polarization, in magnitude and direction of the light from the corona.

**Keywords : Polarization; Corona; Quadruple Polarigraph; Polaroids.**

#### APPARATUS AND DESCRIPTION

THE observations were made with a quadruple polarigraph consisting of four identical refractors of 10 cm aperture and 100 cm focal length. The pictures were obtained simultaneously on Kodak 2485 emulsion through a Wratten 25 filter ( $\sim 6300\text{\AA}$ ) and four polaroids oriented at  $45^\circ$  to each other.

#### SUMMARY OF PRELIMINARY RESULTS

All the eleven exposures obtained are of good quality. The material is being analysed.

#### LOCATION

Hosur, Karnataka. Long.  $75^\circ 09' 18''$  E; Lat.  $15^\circ 06' 12''$  N.