

I. PHYSICS

Astrophysics (Solar Corona)

**DETERMINATION OF ELECTRON DENSITY DISTRIBUTION IN CORONA
USING WHITE LIGHT PICTURES AT 4 POLAROID POSITION**

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AIM of the experiment was to determine the electron density distribution, in corona using white light pictures at 4 polaroid position.

Keywords : Electron Density; Polaroid; Questar Telescope.

EQUIPMENT AND RESULTS

White light corona was photographed in 4 polaroid positions separated by 45° using a $3\frac{1}{2}$ inch Questar telescope. At each polaroid position 3 pictures with exposure times $\frac{1}{4}$, 1 and 3 sec. were taken. The exposures were on Kodak plus X (125 ASA) film.

The data have been digitised and further analysis to yield the electron density distribution in the corona is in progress.