

V. JOINT MEETING OF COMMISSIONS 10, 11, 12 AND 13
ON THE OUTERMOST LAYERS OF THE SUN

Monday, 16 August

PRESIDING: G. ABETTI.

SECRETARY: M. MIGEOTTE.

MINNAERT explained the latest results on the measurements of the darkening at the sun's limb obtained from plates taken with the Lick refractor in two different wavelengths.

UNSÖLD gave a new theory on the variation centre-limb of the intensity of the faint lines in the solar spectrum, and of the variations of the wings in the intense lines. He deduced a new law for the variation of the temperature near the limb. By means of this new theory it is possible to interpret the results of Miss Adam and Redman (published in the *Memorie Società Astronomica Italiana*, 20, 49, 1949).

LYOT showed the diagrams of the intensity of the coronal lines observed at the Observatory of the Pic du Midi and pointed out the differences between the appearances of the green and red corona lines.

ROBERTS reported on the corona observations made at Climax (Colorado), and explained the characteristics of the new type of Evans interference filter to take cinema-pictures of the chromospheric and coronal phenomena with the speed of 6 to each minute of time.

LINK spoke of the supposed fluorescence of the lunar surface as deduced from lunar eclipse observations.

MOHLER showed a film taken at the McMath-Lake Angelus Observatory, in which it is possible to follow the development of the solar phenomena during a whole rotation of the sun.

BAILEY showed a film showing the variation of the critical frequency of the ionospheric layers in various hours of the day and the perturbations of the same, following the ionospheric storms.