

A SPECTROSCOPIC ANALYSIS OF PECULIAR STARS
IV. THE STRONTIUM GROUP

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About 1500 lines of the Ap strontium star HR 710 were identified on a Coudé plate having a dispersion of 4,5 Å/mm. The behavior of the different elements is analysed, specially of those at the iron peak. It is concluded that this star is very similar to the Am stars.

The paper in full will be published elsewhere.

OBSERVATIONS OF LUNAR OCCULTATIONS OF THE GALACTIC CENTER REGION
IN THE OH AND HYDROGEN LINES

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A series of lunar occultations of the galactic center region is being observed with the 140 foot telescope at Green Bank, West Virginia. In line observations, the main interest lies in the fine structure of the absorbing clouds of OH or HI in front of the continuum sources near the center.

The +40 km/sec component of the OH absorption spectrum is found to originate in a cloud of dimensions 3' x 5', which appears to rotate as a uniform body. Internal structure has been detected in the -130 km/sec component of the order of 30". The results for the 1665 and 1667 MHz lines are significantly different.

This paper has now been published in Astrophysical Letters, 2, 195 - 200 (1968).

UNSTABLE CLUSTERS OF GALAXIES⁽⁺⁾

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Abstract: The observed relationship between mass-luminosity ratios for groups and clusters of galaxies and their population is inter-