

PHOTOMETRIC INVESTIGATION OF IC 2944

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Abstract. An investigation has been made of the central region of the cluster IC 2944. For about 70 stars *UBV* photometry has been made. For the brighter of those stars also $H\beta$ has been measured. Slit spectra of intermediate dispersion (73 \AA mm^{-1}) have been made for the 40 brightest stars. Coudé spectra (12 \AA mm^{-1}) have been obtained for 8 stars. Fabry-Pérot measurements have been made in 5 points within the nebula. The number of blue stars is shown to be extremely high. Down to visual magnitude 11.5 the cluster seems to contain only O and B stars, the majority of spectral class earlier than B3. The Fabry-Pérot measurements give evidence of high internal gas motion. Evidently the gas is thin, visible only because of the great number of hot stars.

Details will be published elsewhere.