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SPECTROGRAPHIC OBSERVATIONS OF 32 CYGNI DURING THE ECLIPSE OF 1962

Spectrographic observations of 32 Cygni were begun on March 1962 and are still continuing, with the grating spectrograph of the Merate Observatory. The dispersion is 22 Å/mm. According to the Kukarkin catalogue half-eclipse was predicted for June 3, 1962. Below is the sequence of our observations.

March 19, 1962	:	no trace of the chromospheric K line.
April 12	:	no trace of the chromospheric K line.
April 23	:	a sharp chromospheric K line is clearly visible.
May 15	:	strong chromospheric K line.
May 16	:	strong chromospheric K line.
May 21	:	strong K line, showing that the partial phase has begun;
May 22	:	the width of the K line is increasing.
May 23	:	the K line is broader, but is not yet as broad as the H + H7 line.
June 3	:	total phase. H + H7 and K lines are equal in intensity.
June 4	:	total phase. H + H7 and K lines are equal in intensity.
June 10	:	; partial phase.
June 16	:	strong chromospheric K line.
June 18	:	» » » »
June 20	:	» » » »
June 21	:	» » » »

From visual inspection of these spectrograms we conclude that the partial phase has begun after May 16 but before May 21, and has finished after June 10 but before June 16. We estimate that half-eclipse occurred between May 31 and June 1.

Quantitative reductions of the spectrograms and measurements of radial velocities are in progress.

MARGHERITA HACK

Merate, June 23, 1962.