

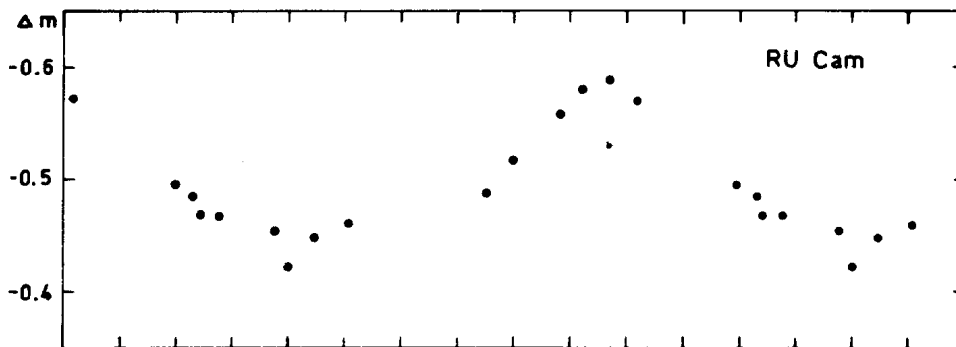
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NOTE ON THE AMPLITUDE  
OF THE CEPHEID RU CAM

Alerted by a preprint of an article by Fernie and Demers on RU Cam, which will be published as a letter to the *Astrophysical Journal*, in which they suggested the stopping of the star's light variation, the author has made a quick reduction of his own observations of this cepheid. The photo-electric observations were made with the 10-inch refractor of the Leiden Observatory in combination with a Corning 3384 filter with an effective wavelength of 5390 Å. Observations were made from September 1965 until February 1966.

My results do not suggest that the pulsation has actually come to an end, but they confirm Fernie and Demers' result that the range has become very small. It is seen from the diagram that the range is about  $0^m.13$ . The observations indicate that the period has remained practically unchanged.



A correction for differential extinction has not been applied, because it does not exceed 0.01 magnitude. The error of the points, which are a mean of four individual observations, is about  $0^m.01$ . The phase was calculated with a period of  $22^d.134$  with the formula  $\varphi = p^{-1}$  (J. D. - 2430000). As comparison star BD+70<sup>o</sup>447 was used. The table gives the heliocentric Julian date, the magnitude differences and the phases.

Hel. J. D.	m	$\varphi$
2439018, 519	-.489	.451
019. 562	-.518	.498
024. 490	-.581	.721
025. 543	-.589	.768
026. 550	-.571	.814
030. 512	-.496	.993
031. 561	-.468	.040
053. 444	-.485	.029
054. 494	-.467	.076
056. 651	-.454	.174
059. 525	-.460	.304
079. 363	-.422	.200
080. 389	-.449	.246
178. 498	-.558	.679

Leiden Observatory  
4 March 1966

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