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A NEW BRIGHT ECLIPSING STAR 71 Dra

While testing a new photometer I found that the star 71 Dra = HD 193 964 (B9,  $m_v = 5.6$ ) is probably an eclipsing star. The observations were made in four spectral regions, defined by

	$\lambda$	$\Delta\lambda$
P	374 nm	20 nm
Y	466 nm	"
V	543 nm	"
MR	700 nm	"

The descent of the brightness on 1975 Aug. 6/7 (JD 2 442 631) is shown by the diagram. In all colours the magnitude differences with respect to the normal brightness are given. The three comparison stars are

I	2 Cep = HD 195 725
III	68 Dra = HD 192 455
IV	66 Dra = HD 191 277

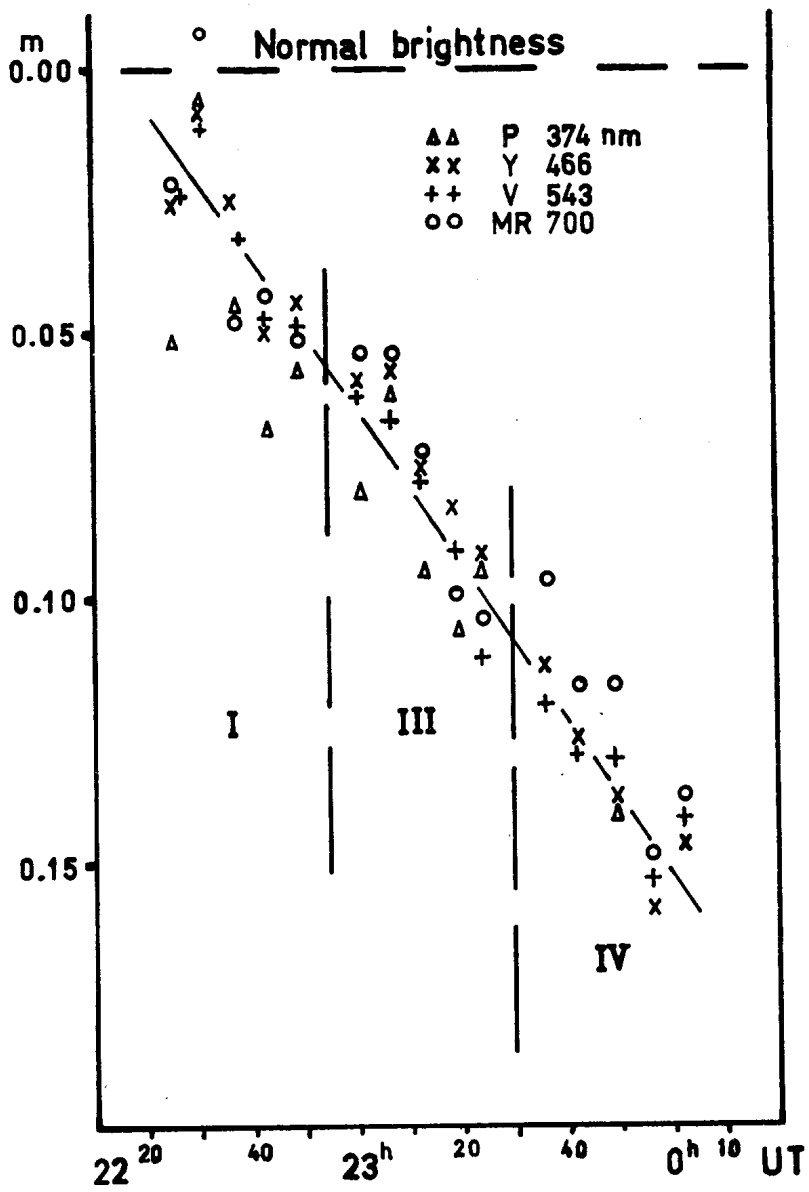
Within the following time intervals no deviations greater than  $0^m.01$  from the normal brightness are detectable:

JD 2 442	628.44 ... 628.58
	630.43 ... 630.51
	632.41 ... 632.48
	634.41 ... 634.49
	635.45 ... 635.49
	637.41 ... 637.45
	638.39 ... 638.45
	639.39 ... 639.46
	653.35 ... 653.43

The star is a spectroscopic binary (Wilson, General Catalogue of Stellar Radial Velocities, star 12 707; see also Abt and Biggs, Bibliography of Stellar Radial Velocities, 1972).

This new variable receives the provisional designation S 10 796.

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1975 Aug 6/7