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KM CASSIOPEIAE

In the Third Edition of the General Catalogue of Variable Stars (1), the spectral type of KM Cas is given as M6e α . Objective-prism observations of the spectrum have been reported from Mt. Wilson (2), Tonantzintla (3), the Crimean Astrophysical Observatory (4), and Hamburg (5), (6), and are summarized in the following table:

Name	Spectral Type and Remarks	Magnitude	Reference
KM Cas	M6e α	12.3-13.1 photogr.	(1),(7)
AS 59	H α emission of moderate strength	10 vis.	(2)
GG1 174	H α emission weak		(3)
B \bar{S} +61 $^{\circ}$ 161	cB1	12.38 photogr.	11.36 vis. (4)
LS I +61 $^{\circ}$ 270	OBce; H α emission not seen	12.2 photogr.	(5),(6)

KM Cas is listed as of type SRa, with a period of about 720^d derived from the magnitudes listed by Holopov (7). Given the observed absence of a very strong H α emission line heretofore, one is not led to suggest that KM Cas is a symbiotic object. It will be of interest, however, to search for the other emission lines which are to be expected in the spectrum of a luminous binary of VV Cephei type.

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