

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS
Number 2887

Konkoly Observatory
Budapest
10 April 1986
HU ISSN 0374 - 0676

OBSERVATIONS OF W SERPENTIS STARS

Observations have commenced at the Stephen F. Austin State University Observatory in Nacogdoches, TX USA on the strongly interactive W Serpentis binary star systems. The observing program has been described in Wilson, et al. (1984). We employ the newly completed 1.04 m automated telescope (Markworth and Rafert, 1984), equipped with a Starlight-1 pulse counting photometer. This photometer is equipped with an EMI 9798A (S-20) photomultiplier and filters that together closely match the B, V, and R of the standard UBVRI system. Also used in these observations is the 46 cm. telescope at the same site, equipped with an identical photometer.

Because of the long orbital periods of W Ser stars each observation listed below consists of (typically) four differential measures of the variable in each of the three colors extending over 15 - 25 minutes. Although phase coverage on individual stars is, as yet, limited, preliminary analysis has begun. Observations of the W Ser stars are continuing.

<u>Star</u>	<u>Date Observed (1985)</u>
KX And	July 29/30, August 25/26
BM Cas	July 25/26, 29/30, 30/31 August 1/2, 3/4, 6/7, 10/11, 13/14
SX Cas	August 25/26
U Cep	August 13
KU Cyg	August 1/2, 6/7, 9/10
V367 Cyg	July 28/29, 29/30, 30/31 August 1/2, 3/4, 6/7, 9/10, 10/11, 25/26
V1507 Cyg	June 7/8, 13/14 July 28/29, 29/30 August 1/2, 6/7, 9/10, 25/26

RZ Oph	June 7/8, 13/14 July 23/24, 25/26 August 3/4, 6/7, 9/10, 21/22
AG Peg	August 9/10, 25/26
V453 Sco	July 9/10, 12/13, 15/16, 25/26, 31/01 August 1/2, 3/4, 8/9, 10/11
W Ser	June 7/8 July 12/13, 13/14, 23/24, 24/25, 25/26 August 3/4, 6/7, 8/9, 9/10, 10/11, 21/22, 26/27
V356 Sgr	July 12/13, 13/14, 14/15, 23/24 24/25, 25/26 August 1/2, 3/4, 6/7, 8/9, 9/10, 10/11, 17/18, 21/22
HD 207739	July 29/30 August 28/29

This work is supported by the U.S. National Science Foundation under
Grant Number AST 840-1479

N.L. MARKWORTH
R.L. GANN
Stephen F. Austin State University
Dept. of Physics and Astronomy
Nacogdoches, TX 75962

J.B. RAFERT
E. SMITH
Florida Institute of Technology
Dept. of Physics and Space Sciences
Melbourne, FL 32901

R.E. WILSON
University of Florida
Dept. of Astronomy
Gainesville, FL 32611

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