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BEHAVIOUR OF KR AURIGAE IN THE SEASON 1984/85

The star was measured on 28 blue-sensitive plates (ORWO-ZU21+GG13+BG12) from 20 nights obtained with the 50/70/172 cm Schmidt camera of Sonneberg Observatory, covering the time interval between 2 September 1984 and 12 March 1985, using the comparison star sequence given by Popova (1965). The observations are given in Table I.

Table I

J.D. 244....	m_B	J.D. 244....	m_B
5946.572	$13^m.10$	6036.542	$13^m.34$
6002.529	13.22	6059.471	13.22
6003.542	13.42:	6059.490	13.20
6003.567	13.43	6083.422	13.16
6004.478	13.34	6084.325	13.37:
6004.497	13.32	6084.535	13.26
6005.585	13.12	6093.479	13.22
6005.608	13.14	6104.276	13.36
6006.546	13.42	6108.318	13.12
6006.570	13.27	6109.306	13.20
6031.656	13.38	6110.301	13.15
6034.418	13.32	6113.304	13.30
6034.437	13.50	6116.298	13.68
6036.524	13.52	6137.303	14.08

It can be seen from Figure 1 that most of the time KR Aur is in its maximum light between $m_B = 13^m.1$ and $m_B = 13^m.5$; and slow temporal light fluctuations are superimposed. At the end of the series a decrease in the brightness from $m_B = 13^m.3$ to $m_B = 14^m.08$ is indicated.

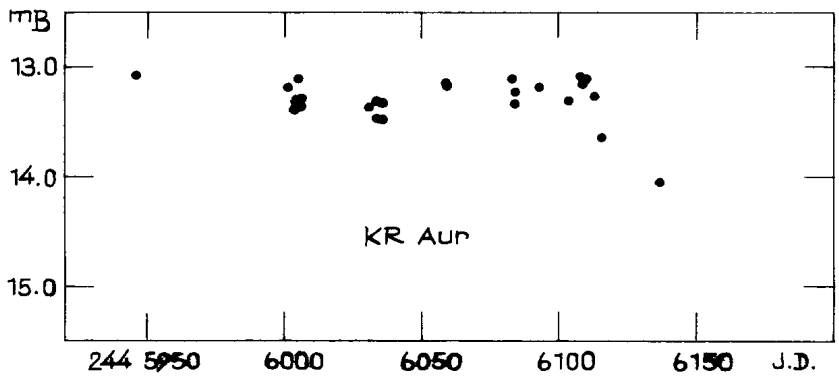

Figure 1

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Reference:

Popova, M., 1965, Peremennye Zvezdy, 15, 534.