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PHOTOMETRIC BEHAVIOR OF DR TAURI IN THE SEASON 1985/86

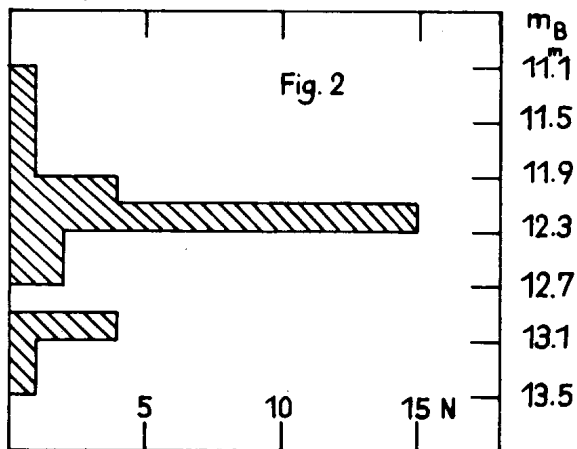
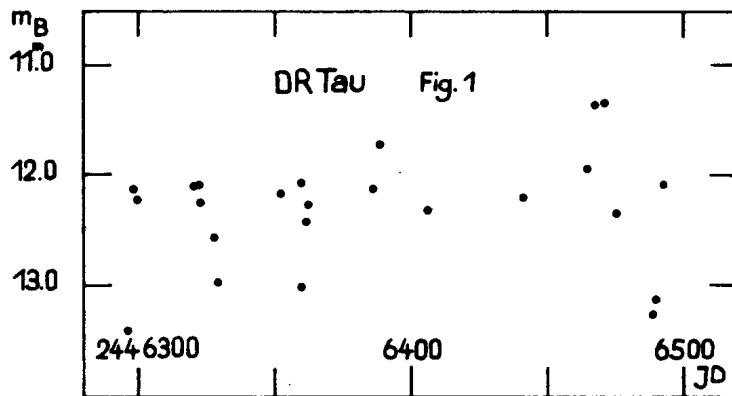
In linking to the previous sequence of comparison stars given by Götzt (1982) the star was measured on 33 blue-sensitive plates (ORWO-ZU21 +GG13+BG12) from 24 nights obtained with the 50/70/172cm Schmidt camera of Sonneberg Observatory covering the time interval between 18 August 1985 and 1 March 1986. The measurements, which are listed in Table I and the light curve, which is given in Figure 1 are used to complete and to supplement our knowledge of the brightness variations (Götzt, 1980, 1982, 1983, 1984, 1985) of this star.

Table I

J.D.	$m_B$	J.D.	$m_B$
244....		244....	
6296.587	13 <sup>m</sup> 42	6360.569	12 <sup>m</sup> 48
6298.592	12.12	6360.582	12.30
6299.583	12.22	6361.593	12.25
6320.519	12.08	6385.485	12.10
6321.603	12.05	6385.502	12.13
6321.615	12.12	6387.504	11.69
6322.551	12.3 :	6405.369	12.28
6322.568	12.1 :	6440.381	12.14
6327.547	12.6 :	6440.397	12.20
6327.566	12.59	6463.322	11.90
6328.514	12.97	6466.304	11.32
6351.516	12.17	6469.273	11.30
6351.529	12.10	6474.268	12.30
6358.552	11.98	6488.266	13.24
6358.570	12.15	6489.276	13.08
6359.494	12.98	6491.281	12.04
6359.518	13.00		

When comparing the given light curve with those obtained in former years, we find the star in an active phase. This behaviour is expressed by a total amplitude of  $\Delta m_B = 2^m1$  and by short-time light depressions and brightness

increases starting from a normal light at  $m_B \approx 12.2$ . The brightness distribution (Figure 2) of the individual measurements confirms this statement.



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