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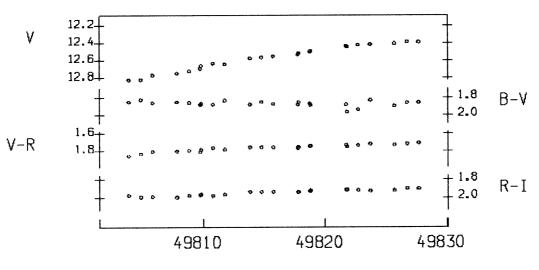
## PHOTOELECTRIC BV(RI)<sub>c</sub> OBSERVATIONS AND NEW CLASSIFICATION OF BX Cru<sup>-1</sup>

BX Cru is classified in GCVS–IV as a classical Cepheid with the 19.537 day period. However, our photoelectric  $BV(RI)_c$  observations carried out with the 0.6 m reflector of CTIO in March–April 1995 (Table 1) show that this classification is wrong: for 25 days the light of the star was constantly increasing (Fig. 1), and moreover, the variations of the color index B-V were not typical of Cepheids. Most likely BX Cru is a semiregular variable.

	T 7			
JD hel	V	B - V	$(V-R)_c$	$(R-I)_c$
2400000 +				
49803.8596	12.820	1.847	1.855	1.979
49804.8442	12.819	1.823	1.833	1.998
49805.8160	12.767	1.858	1.804	1.992
49807.8286	12.746	1.848	1.800	2.001
49808.8375	12.720	1.854	1.792	1.979
49809.7552	12.692	1.881	1.810	1.973
49809.8141	12.659	1.867	1.784	1.967
49810.7955	12.632	1.877	1.764	1.984
49811.7634	12.639	1.829	1.782	1.968
49813.8321	12.573	1.876	1.757	1.938
49814.7850	12.564	1.848	1.759	1.941
49815.7404	12.550	1.872	1.758	1.939
49817.7642	12.529	1.879	1.765	1.943
49817.8151	12.518	1.856	1.756	1.940
49818.7366	12.498	1.867	1.744	1.930
49818.8039	12.491	1.884	1.742	1.922
49821.7267	12.431	1.877	1.731	1.914
49821.7981	12.443	1.962	1.752	1.914
49822.7196	12.421	1.936	1.736	1.920
49823.7168	12.414	1.826	1.718	1.926
49825.7033	12.403	1.892	1.729	1.922
49826.7363	12.385	1.857	1.720	1.900
49827.6929	12.386	1.854	1.707	1.901

Table 1

<sup>1</sup>Based on observations obtained at the Cerro Tololo Inter-American Observatory





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