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POLARIMETRIC OBSERVATIONS OF Be STARS

In 1982 we started a program of UBVR polarimetry of bright southern Be stars, extending to the south similar observations already extensively done by other people in the Northern hemisphere (see e.g. Poeckert et al. 1979).

The measurements have been performed with the Instituto Astronômico e Geofísico (Universidade de São Paulo, Brasil) photopolarimeter attached to the Observatório Astrofísico Brasileiro 1.6 meter telescope. The instrument allows simultaneous photometric and linear and circular polarimetric observations (Magalhães 1979).

Some results are given in Table I, for stars with  $E_{B-V} = 0$ , that is with no interstellar polarization. Columns give successively, HD numbers, V magnitudes, spectral types, polarization degree (in percent) in U,B,V and R bands, polarization angles in the four bands and dates of the observations.

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References:

- Magalhães, A.M., 1979, Thesis, I.A.G./U.S.P., S. Paulo, Brasil  
Poeckert, R., Bastian, P., Landstreet, J.D., 1979. Astron.J., 84, 812

Table I

HD	V	S <sub>P</sub>	U <sub>P</sub>	B <sub>P</sub>	V <sub>P</sub>	R <sub>P</sub>	U <sub>O</sub>	B <sub>O</sub>	V <sub>O</sub>	R <sub>O</sub>	Date
209014	5.4	B8Ve	0.17+0.21	0.36+0.05	0.27+0.04	0.17+0.07	130.2+51.9	31.2+3.9	35.7+4.3	73.7+12.1	09/08/1982
			0.18+0.34	0.23+0.06	0.32+0.06	0.22+0.05	154.9+51.9	44.6+7.5	32.9+5.4	46.1+6.4	12/08/1982
			0.18+0.34	0.42+0.09	0.13+0.15	0.26+0.24	104.8+6.0		137.4+51.9		21/06/1983
209522	5.8	B4IVn	0.34+0.08	0.48+0.07	0.35+0.08	0.48+0.07	18.4+6.8	10.9+4.2	7.9+6.6	16.1+4.2	09/08/1982
			0.28+0.10	0.44+0.08	0.22+0.07	0.19+0.10	35.2+10.2	38.8+5.3	23.5+8.9	49.9+15.2	12/08/1982
			0.32+0.28	0.39+0.12	0.31+0.13	98.5+25.4	109.4+8.6		82.3+12.3		21/06/1983
210129	5.7	B7Ve	0.43+0.10	0.50+0.08	0.32+0.05	0.43+0.10	89.7+6.6	98.0+4.6	108.9+4.5	91.4+6.7	08/08/1982
			0.38+0.06	0.52+0.07	0.50+0.09	0.28+0.11	21.3+4.5	25.0+3.8	49.4+5.2	74.5+11.4	09/08/1982