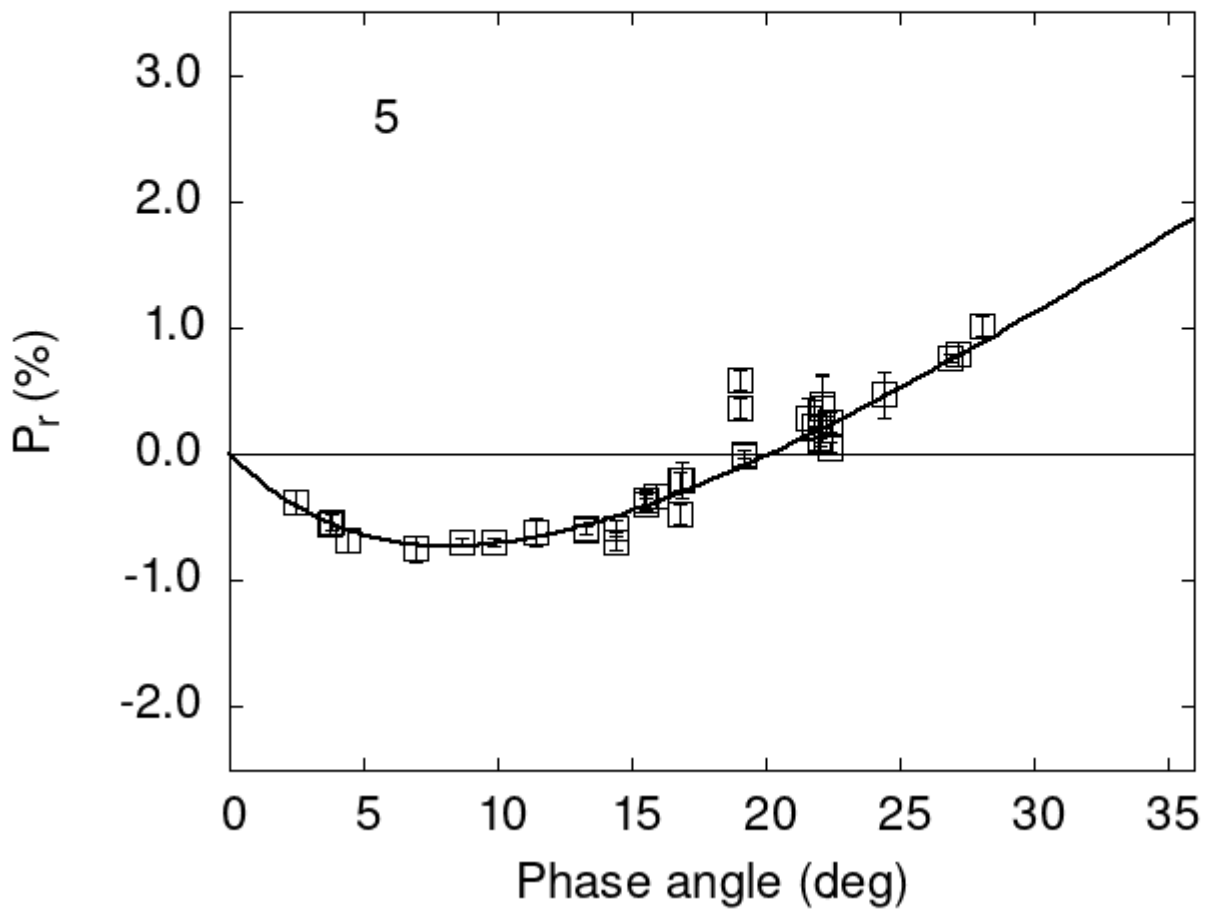


Catalogue of Asteroid Polarization Curves

Gil-Hutton (2023)



Polarimetric data:

The columns list the object number, the phase angle (degrees), P_r (%), its error, the filter used, and the reference code.

5	2.45	-0.38	0.09	V	f
5	3.71	-0.55	0.09	V	f
5	4.41	-0.68	0.10	V	f
5	6.94	-0.75	0.10	V	f
5	15.55	-0.36	0.08	V	f
5	27.22	0.79	0.10	V	f

5	28.12	1.02	0.08	V	f
5	13.33	-0.59	0.04	V	f
5	13.33	-0.60	0.03	R	f
5	22.02	0.12	0.08	V	f
5	22.02	0.13	0.07	R	f
5	22.12	0.36	0.26	V	f
5	22.12	0.39	0.25	R	f
5	22.43	0.05	0.04	V	f
5	22.43	0.25	0.08	R	f
5	21.81	0.23	0.20	G	a
5	16.87	-0.20	0.14	G	a
5	11.42	-0.62	0.11	G	a
5	15.89	-0.33	0.10	G	a
5	21.57	0.28	0.16	G	a
5	24.44	0.47	0.18	G	a
5	26.90	0.76	0.03	G	a
5	8.64	-0.69	0.03	G	a
5	9.86	-0.69	0.03	G	a
5	16.80	-0.21	0.07	V	a
5	16.80	-0.47	0.08	R	a
5	19.22	0.00	0.03	V	a
5	19.22	-0.02	0.06	R	a
5	19.06	0.59	0.08	V	a
5	19.06	0.37	0.08	R	a
5	15.50	-0.39	0.07	V	a
5	15.50	-0.40	0.06	R	a
5	3.80	-0.54	0.06	V	a
5	14.40	-0.58	0.06	V	a
5	14.40	-0.69	0.07	R	a
5	13.33	-0.59	0.04	V	b
5	13.33	-0.60	0.03	R	b
5	22.02	0.12	0.08	V	b
5	22.02	0.13	0.07	R	b
5	22.12	0.36	0.26	V	b
5	22.12	0.39	0.25	R	b
5	22.43	0.05	0.04	V	b
5	22.43	0.25	0.08	R	b

Polarization Curve Parameters:

The polarimetric parameters were obtained fitting the observations to a polarization curve using the function:

$$P_r(\alpha) = Coe_1 \times \left[\exp\left(-\frac{\alpha}{Coe_2}\right) - 1 \right] + Coe_3 \times \alpha,$$

where α is the phase angle in degrees. The minimum of the polarization curve is identified by Pmin, Phmin is the phase angle where Pmin is reached, Ph0 is the inversion angle, and k is the slope of the polarization curve at Ph0.

#

#	Coe1	eCoe1	Coe2	eCoe2	Coe3	eCoe3		
#	2.9745	0.3238	8.6786	0.9923	0.1330	0.0104		
#								
#	Phmin	err	Pmin	err	Ph0	err	k	err
#	8.22	1.16	-0.728	0.249	20.17	0.40	0.0994	0.0121