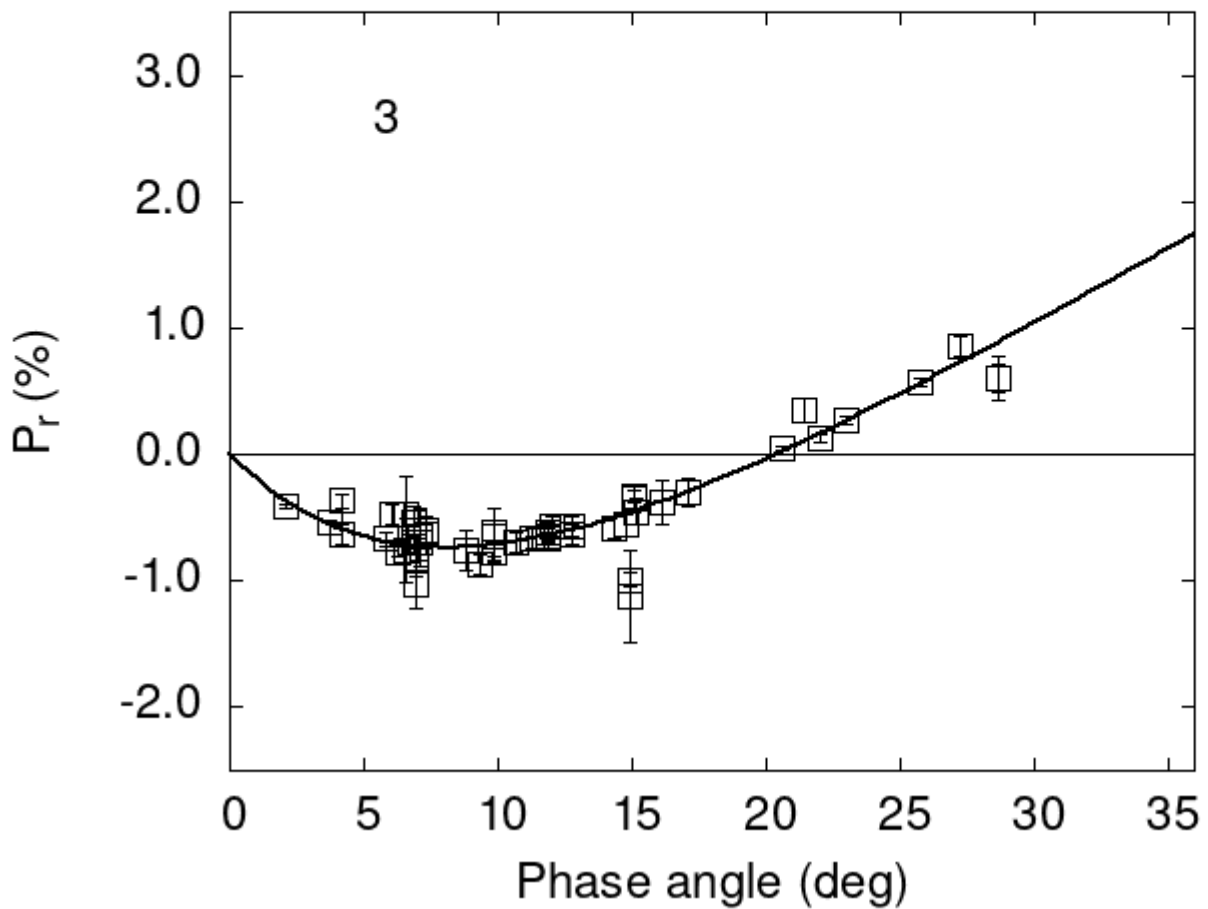


Catalogue of Asteroid Polarization Curves

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.

3	4.16	-0.63	0.08	V	f
3	6.08	-0.48	0.08	V	f
3	10.71	-0.69	0.08	V	f
3	11.27	-0.67	0.08	V	f
3	11.91	-0.62	0.08	V	f
3	11.91	-0.66	0.08	R	f

3	12.05	-0.57	0.08	V	f
3	14.35	-0.58	0.09	V	f
3	14.77	-0.56	0.09	V	f
3	15.13	-0.45	0.10	V	f
3	14.92	-0.99	0.06	V	f
3	14.92	-1.12	0.36	R	f
3	15.07	-0.33	0.05	V	f
3	15.07	-0.35	0.11	R	f
3	5.80	-0.67	0.05	V	f
3	28.70	0.60	0.11	G	a
3	28.70	0.60	0.17	G	a
3	27.23	0.85	0.08	G	a
3	21.47	0.35	0.09	G	a
3	6.84	-0.53	0.12	O	a
3	6.84	-0.70	0.07	G	a
3	9.89	-0.77	0.06	G	a
3	8.79	-0.76	0.16	G	a
3	16.13	-0.38	0.17	G	a
3	17.09	-0.30	0.11	G	a
3	23.04	0.27	0.03	G	a
3	22.00	0.13	0.03	G	a
3	20.63	0.05	0.02	G	a
3	2.08	-0.41	0.01	G	a
3	25.79	0.57	0.03	G	a
3	9.30	-0.87	0.08	V	a
3	7.10	-0.69	0.02	V	a
3	6.30	-0.77	0.04	V	a
3	6.55	-0.76	0.25	V	a
3	6.55	-0.48	0.31	R	a
3	9.83	-0.64	0.21	V	a
3	9.83	-0.62	0.19	R	a
3	12.80	-0.57	0.08	V	a
3	12.80	-0.63	0.08	R	a
3	4.20	-0.37	0.06	V	a
3	3.70	-0.53	0.01	V	a
3	11.91	-0.66	0.02	V	a
3	11.91	-0.64	0.02	R	a
3	7.32	-0.63	0.12	V	b
3	7.32	-0.60	0.11	R	b
3	7.10	-0.64	0.20	V	b
3	7.10	-0.65	0.23	R	b
3	6.91	-1.02	0.19	V	b
3	6.91	-0.82	0.15	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
#      2.7391    0.1586    8.0494    0.4025    0.1236    0.0058
#
#      Phmin    err   Pmin     err   Ph0     err    k      err
#      8.15    0.60 -0.736   0.122  20.38  0.41  0.0966  0.0063
```