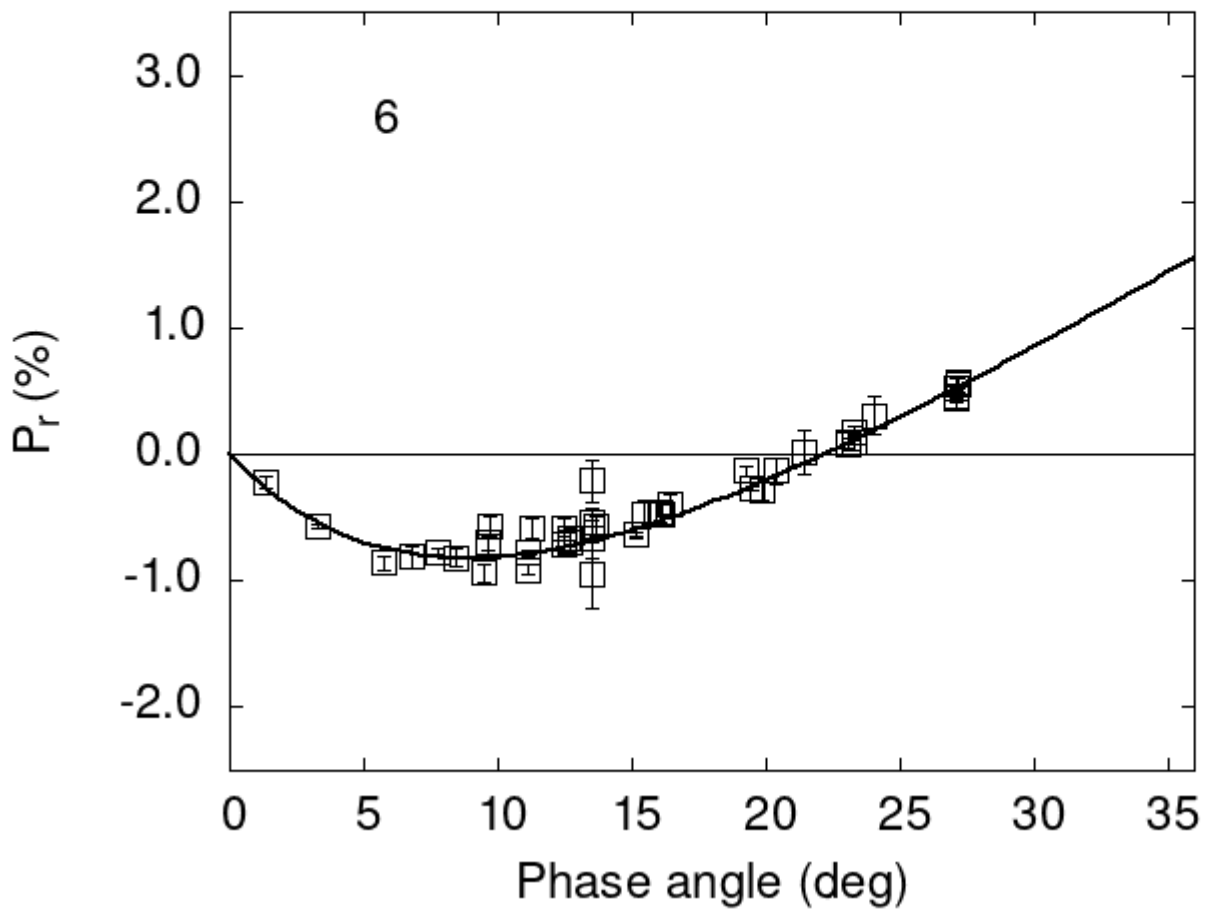


Catalogue of Asteroid Polarization Curves

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.

6	6.76	-0.81	0.09	V	f
6	9.70	-0.57	0.08	V	f
6	11.29	-0.59	0.08	V	f
6	13.64	-0.57	0.08	V	f
6	15.48	-0.47	0.11	V	f
6	16.08	-0.45	0.08	V	f

6 16.14 -0.47 0.08 V f
6 19.85 -0.28 0.09 V f
6 20.37 -0.13 0.10 V f
6 27.14 0.53 0.08 V f
6 27.14 0.45 0.08 R f
6 11.12 -0.78 0.02 V f
6 11.12 -0.91 0.04 R f
6 23.08 0.09 0.04 V f
6 23.08 0.08 0.05 R f
6 23.33 0.17 0.06 V f
6 23.33 0.10 0.06 R f
6 27.15 0.55 0.06 V f
6 27.15 0.57 0.04 R f
6 5.74 -0.86 0.05 V a
6 1.32 -0.22 0.05 V a
6 24.07 0.31 0.15 G a
6 16.41 -0.40 0.08 G a
6 8.44 -0.82 0.07 G a
6 7.77 -0.77 0.02 G a
6 19.28 -0.13 0.04 G a
6 21.42 0.02 0.17 G a
6 9.50 -0.94 0.07 V a
6 3.30 -0.57 0.02 V a
6 15.16 -0.63 0.04 V a
6 15.16 -0.63 0.02 R a
6 12.46 -0.59 0.09 V a
6 12.46 -0.71 0.07 R a
6 9.60 -0.72 0.07 V a
6 9.60 -0.70 0.06 R a
6 12.70 -0.67 0.09 V a
6 12.70 -0.70 0.08 R a
6 19.50 -0.27 0.02 V a
6 27.14 0.46 0.04 V a
6 27.14 0.45 0.04 R a
6 13.52 -0.21 0.17 V b
6 13.52 -0.67 0.15 R b
6 13.53 -0.95 0.26 V b
6 13.53 -0.54 0.12 R b
6 23.08 0.09 0.04 V b
6 23.08 0.08 0.05 R b
6 23.33 0.17 0.06 V b
6 23.33 0.09 0.06 R b
6 11.12 -0.78 0.02 V b
6 11.12 -0.91 0.04 R b
6 27.15 0.55 0.06 V b
6 27.15 0.57 0.04 R b
6 15.16 -0.63 0.04 V b
6 15.16 -0.63 0.02 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
#      3.0510    0.1581    8.7235    0.4772    0.1266    0.0049
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      8.86    0.57 -0.824    0.126 22.21  0.40 0.0992 0.0056
```