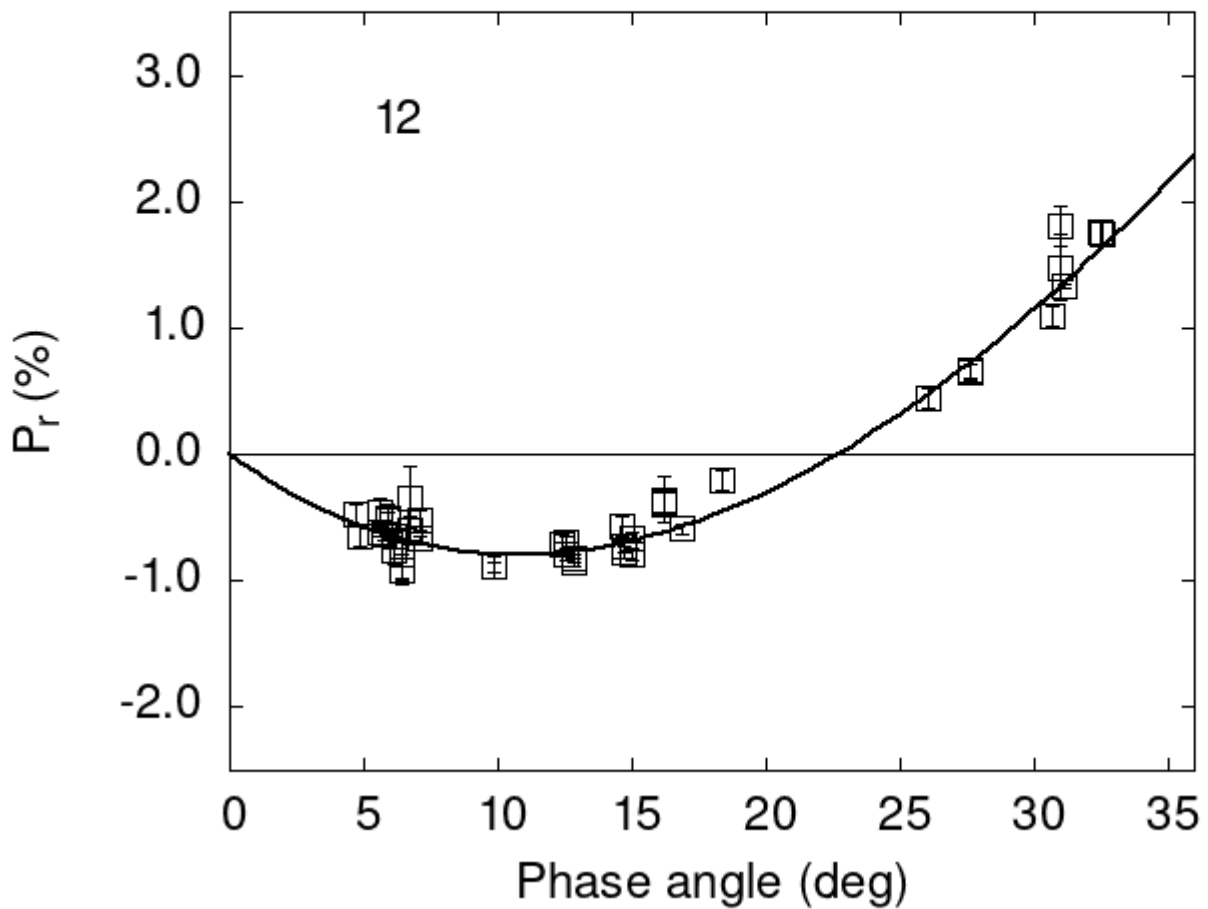


Catalogue of Asteroid Polarization Curves

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.

12	4.73	-0.47	0.08	V	f
12	4.87	-0.64	0.09	V	f
12	9.83	-0.89	0.09	V	f
12	12.41	-0.71	0.08	V	f
12	14.62	-0.57	0.08	V	f
12	18.35	-0.21	0.08	V	f

12 26.05 0.44 0.08 V f
12 30.67 1.10 0.08 V f
12 12.52 -0.70 0.05 V f
12 12.52 -0.79 0.04 R f
12 12.83 -0.85 0.03 V f
12 12.83 -0.82 0.03 R f
12 16.22 -0.36 0.18 V f
12 16.22 -0.39 0.09 R f
12 27.61 0.66 0.06 V f
12 27.61 0.65 0.06 R f
12 30.97 1.80 0.16 V f
12 30.97 1.48 0.26 R f
12 5.61 -0.46 0.12 V f
12 5.61 -0.61 0.04 R f
12 5.87 -0.52 0.06 V f
12 5.87 -0.51 0.11 R f
12 6.14 -0.76 0.11 V f
12 6.14 -0.64 0.04 R f
12 6.43 -0.79 0.20 V f
12 6.43 -0.91 0.12 R f
12 6.75 -0.34 0.24 V f
12 6.75 -0.60 0.11 R f
12 7.06 -0.52 0.08 V f
12 7.06 -0.67 0.03 R f
12 5.72 -0.63 0.05 G a
12 31.11 1.33 0.02 G a
12 14.99 -0.66 0.04 V a
12 14.99 -0.79 0.05 R a
12 14.70 -0.77 0.05 V a
12 14.70 -0.73 0.04 R a
12 32.60 1.75 0.08 V a
12 32.50 1.76 0.09 V a
12 16.90 -0.59 0.04 V a
12 9.83 -0.89 0.04 V a
12 7.06 -0.52 0.08 V b
12 7.06 -0.67 0.03 R b
12 6.75 -0.34 0.24 V b
12 6.75 -0.60 0.11 R b
12 6.43 -0.79 0.19 V b
12 6.43 -0.91 0.12 R b
12 6.14 -0.76 0.11 V b
12 6.14 -0.64 0.05 R b
12 5.87 -0.52 0.06 V b
12 5.87 -0.51 0.11 R b
12 5.61 -0.46 0.12 V b
12 5.61 -0.61 0.04 R b
12 16.22 -0.36 0.18 V b
12 16.22 -0.38 0.09 R b
12 30.97 1.80 0.16 V b
12 30.97 1.48 0.26 R b

```

12 12.52 -0.70 0.05 V b
12 12.52 -0.79 0.04 R b
12 12.83 -0.85 0.03 V b
12 12.83 -0.82 0.03 R b
12 27.61 0.66 0.06 V b
12 27.61 0.65 0.06 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
# 20.7186  0.4470  35.0526  0.5263  0.4350  0.0052
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
# 10.75  0.94 -0.796  0.148  22.70  0.32  0.1257  0.0086

```