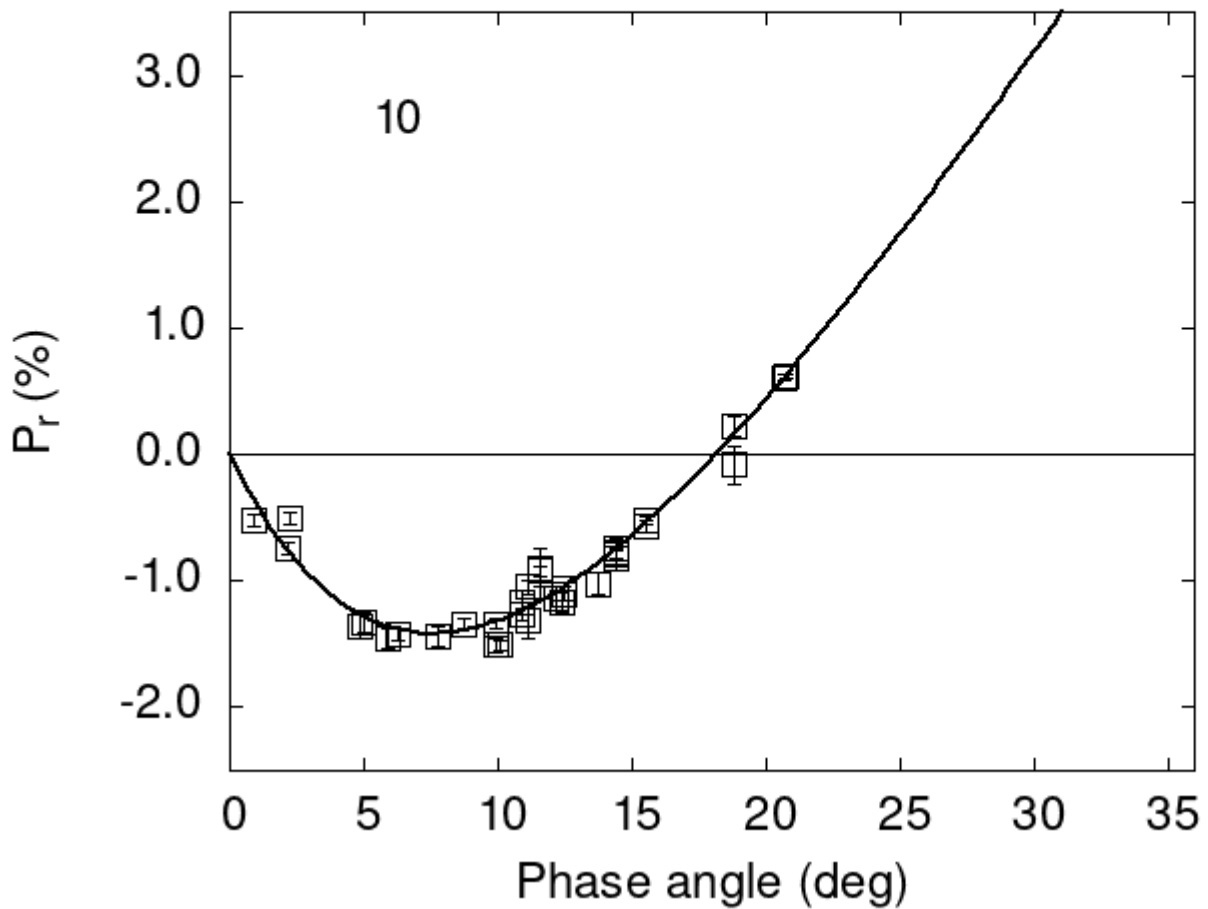


Catalogue of Asteroid Polarization Curves

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.

10	4.89	-1.36	0.09	V	f
10	4.97	-1.33	0.08	V	f
10	5.87	-1.45	0.08	V	f
10	7.76	-1.44	0.08	V	f
10	12.41	-1.17	0.08	V	f
10	13.73	-1.02	0.09	V	f

```

10 14.45 -0.74 0.08 V f
10 14.45 -0.82 0.09 R f
10 18.84 0.22 0.08 V f
10 10.91 -1.27 0.05 V f
10 10.91 -1.17 0.10 R f
10 11.15 -1.31 0.14 V f
10 11.15 -1.05 0.05 R f
10 11.60 -0.90 0.15 V f
10 11.60 -0.92 0.04 R f
10 12.45 -1.11 0.04 V f
10 12.45 -1.06 0.02 R f
10 9.94 -1.51 0.05 V f
10 9.94 -1.34 0.04 R f
10 2.13 -0.74 0.05 V a
10 0.92 -0.52 0.05 V a
10 2.23 -0.51 0.05 V a
10 10.11 -1.51 0.04 G a
10 8.73 -1.34 0.04 G a
10 6.27 -1.42 0.05 G a
10 15.50 -0.52 0.03 V a
10 15.50 -0.57 0.05 R a
10 12.20 -1.14 0.09 V a
10 18.80 -0.08 0.15 V a
10 20.70 0.61 0.03 V a
10 20.80 0.62 0.02 V a
10 14.45 -0.79 0.03 V a
10 14.45 -0.78 0.04 R a
10 10.91 -1.27 0.05 V b
10 10.91 -1.17 0.10 R b
10 11.15 -1.31 0.14 V b
10 11.15 -1.05 0.05 R b
10 11.60 -0.90 0.15 V b
10 11.60 -0.92 0.04 R b
10 9.94 -1.51 0.05 V b
10 9.94 -1.34 0.04 R b
10 12.45 -1.11 0.04 V b
10 12.45 -1.06 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		
#	6.7006	0.4375	8.8552	0.5363	0.3214	0.0150		
#								
#	Phmin	err	Pmin	err	Ph0	err	k	err
#	7.58	0.71	-1.417	0.313	18.16	0.18	0.2241	0.0174