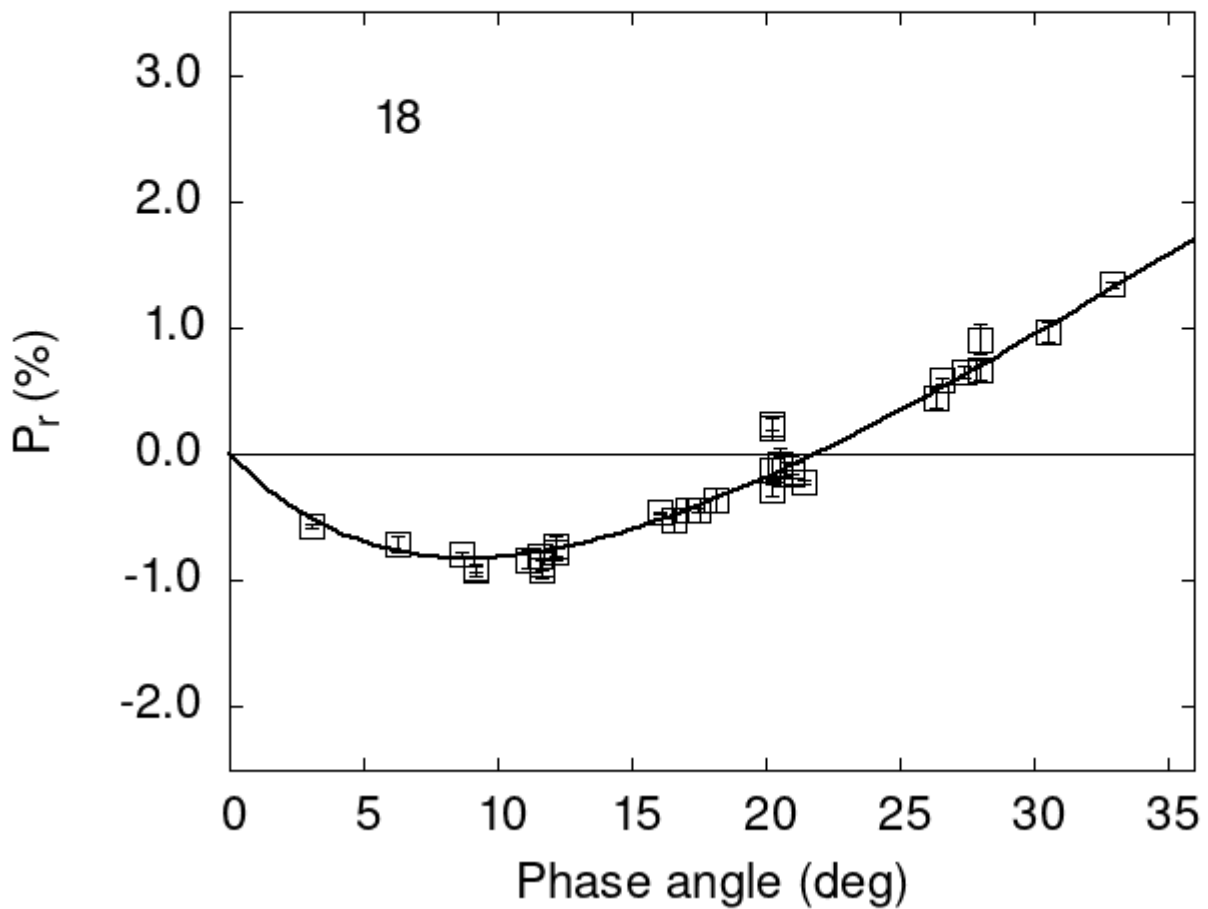


Catalogue of Asteroid Polarization Curves

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.

18	16.58	-0.52	0.09	V	f
18	17.13	-0.44	0.09	V	f
18	18.15	-0.36	0.09	V	f
18	20.25	-0.12	0.09	V	f
18	20.25	0.21	0.09	R	f
18	26.34	0.45	0.08	V	f

```

18 30.53  0.96 0.08 V f
18 11.68 -0.87 0.04 V f
18 11.68 -0.91 0.07 R f
18 20.51 -0.10 0.15 V f
18 20.51 -0.08 0.06 R f
18 20.97 -0.16 0.08 V f
18 20.97 -0.09 0.07 R f
18 27.41  0.65 0.05 G a
18 26.61  0.58 0.03 G a
18 21.02 -0.09 0.03 G a
18 17.47 -0.44 0.01 G a
18 11.60 -0.80 0.02 G a
18  3.04 -0.57 0.02 G a
18  8.70 -0.79 0.01 G a
18 16.09 -0.46 0.01 G a
18 32.97  1.34 0.03 G a
18 21.40 -0.22 0.02 R a
18  9.20 -0.90 0.03 R a
18  9.20 -0.92 0.04 V a
18 28.00  0.67 0.08 V a
18 28.00  0.91 0.12 R a
18 11.10 -0.83 0.07 V a
18  6.30 -0.71 0.06 V a
18  6.30 -0.71 0.07 R a
18 12.20 -0.72 0.08 V a
18 12.20 -0.78 0.05 R a
18 20.25 -0.28 0.05 V a
18 20.25  0.24 0.05 R a
18 20.51 -0.10 0.15 V b
18 20.51 -0.08 0.06 R b
18 20.97 -0.16 0.08 V b
18 20.97 -0.09 0.07 R b
18 11.68 -0.87 0.05 V b
18 11.68 -0.91 0.07 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
#      3.3567      0.1269      9.4109      0.3704      0.1385      0.0039
#

```

#	Phmin	err	Pmin	err	Ph0	err	k	err
#	8.90	0.44	-0.820	0.098	21.86	0.39	0.1035	0.0045