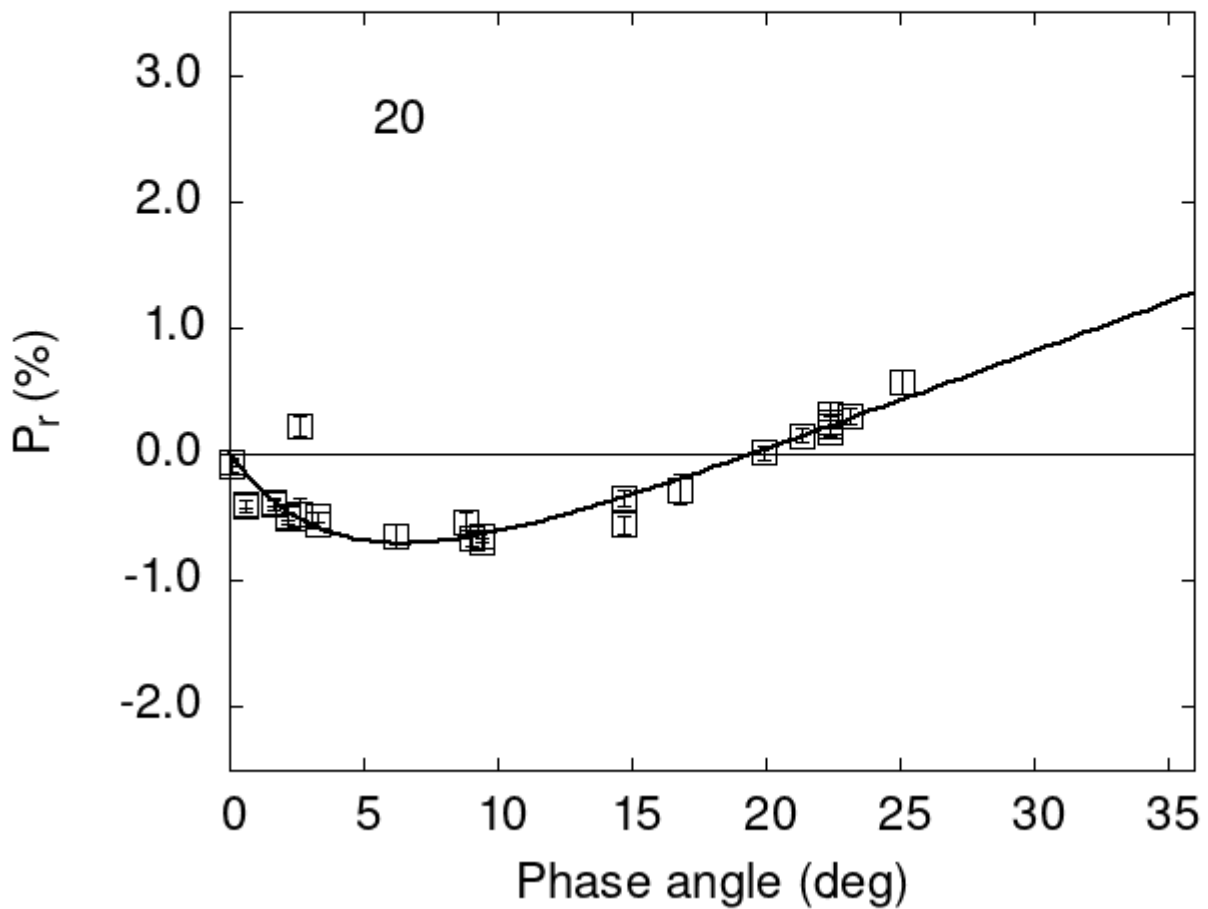


Catalogue of Asteroid Polarization Curves

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.

20	2.60	-0.47	0.13	V	f
20	2.60	0.22	0.08	R	f
20	22.38	0.32	0.09	V	f
20	22.38	0.22	0.08	R	f
20	25.13	0.57	0.09	V	f
20	23.17	0.30	0.06	G	a

```

20 16.82 -0.28 0.12 G a
20 6.21 -0.65 0.10 G a
20 21.36 0.15 0.06 G a
20 19.95 0.01 0.05 G a
20 8.80 -0.53 0.07 V a
20 8.80 -0.53 0.07 R a
20 9.00 -0.67 0.05 R a
20 9.40 -0.70 0.04 R a
20 9.40 -0.65 0.04 V a
20 3.25 -0.49 0.04 V a
20 3.25 -0.56 0.02 R a
20 2.13 -0.50 0.05 V a
20 2.13 -0.49 0.03 R a
20 1.67 -0.40 0.04 V a
20 1.67 -0.38 0.03 R a
20 0.58 -0.41 0.05 V a
20 0.58 -0.40 0.03 R a
20 0.08 -0.09 0.05 V a
20 0.08 -0.06 0.03 R a
20 14.70 -0.35 0.06 V a
20 14.70 -0.56 0.07 R a
20 22.38 0.25 0.05 V a
20 22.38 0.18 0.04 R a

```

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
#      1.5351    0.0898    4.1721    0.2943    0.0780    0.0042
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      6.47    0.37 -0.705    0.084 19.49    0.54 0.0746 0.0043

```