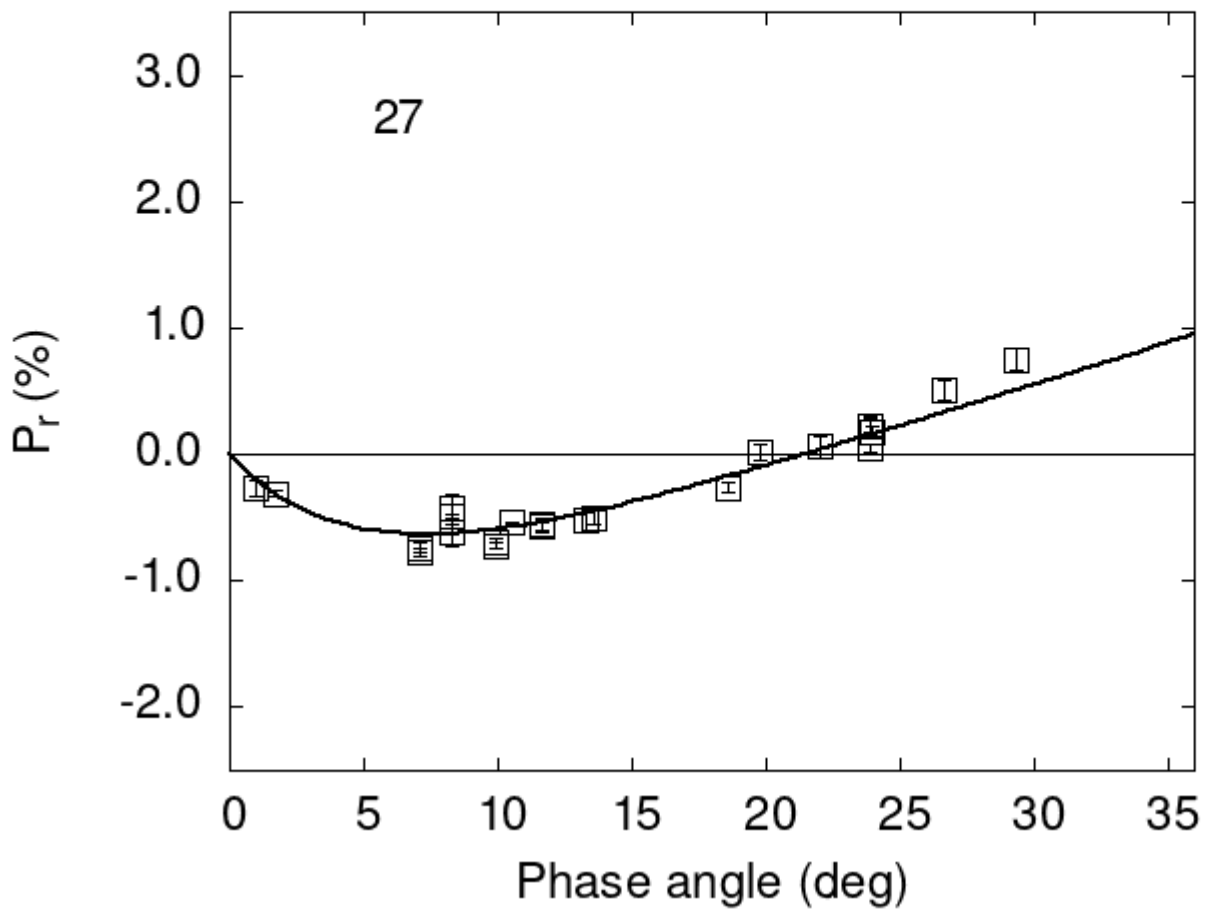


Catalogue of Asteroid Polarization Curves

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.

27	13.30	-0.52	0.09	V	f
27	22.02	0.06	0.09	V	f
27	26.63	0.51	0.08	V	f
27	29.34	0.75	0.09	V	f
27	8.30	-0.62	0.11	V	a
27	8.30	-0.43	0.12	R	a

```

27 7.10 -0.74 0.04 V a
27 7.10 -0.77 0.03 R a
27 19.80 0.02 0.06 V a
27 13.60 -0.50 0.06 V a
27 1.00 -0.27 0.06 V a
27 9.94 -0.70 0.04 V a
27 9.94 -0.72 0.02 R a
27 11.63 -0.56 0.06 V a
27 11.63 -0.57 0.03 R a
27 23.90 0.22 0.08 V a
27 23.90 0.23 0.06 R a
27 24.00 0.18 0.05 V a
27 8.30 -0.49 0.02 V a
27 10.50 -0.54 0.01 V a
27 18.60 -0.26 0.04 V a
27 1.70 -0.31 0.02 V a
27 23.90 0.05 0.03 V 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
#      1.4395    0.0982    4.8977    0.5108    0.0662    0.0044
#
#      Phmin    err   Pmin    err   Ph0    err    k      err
#      7.30    0.53 -0.632  0.097  21.46  0.64  0.0625  0.0046

```