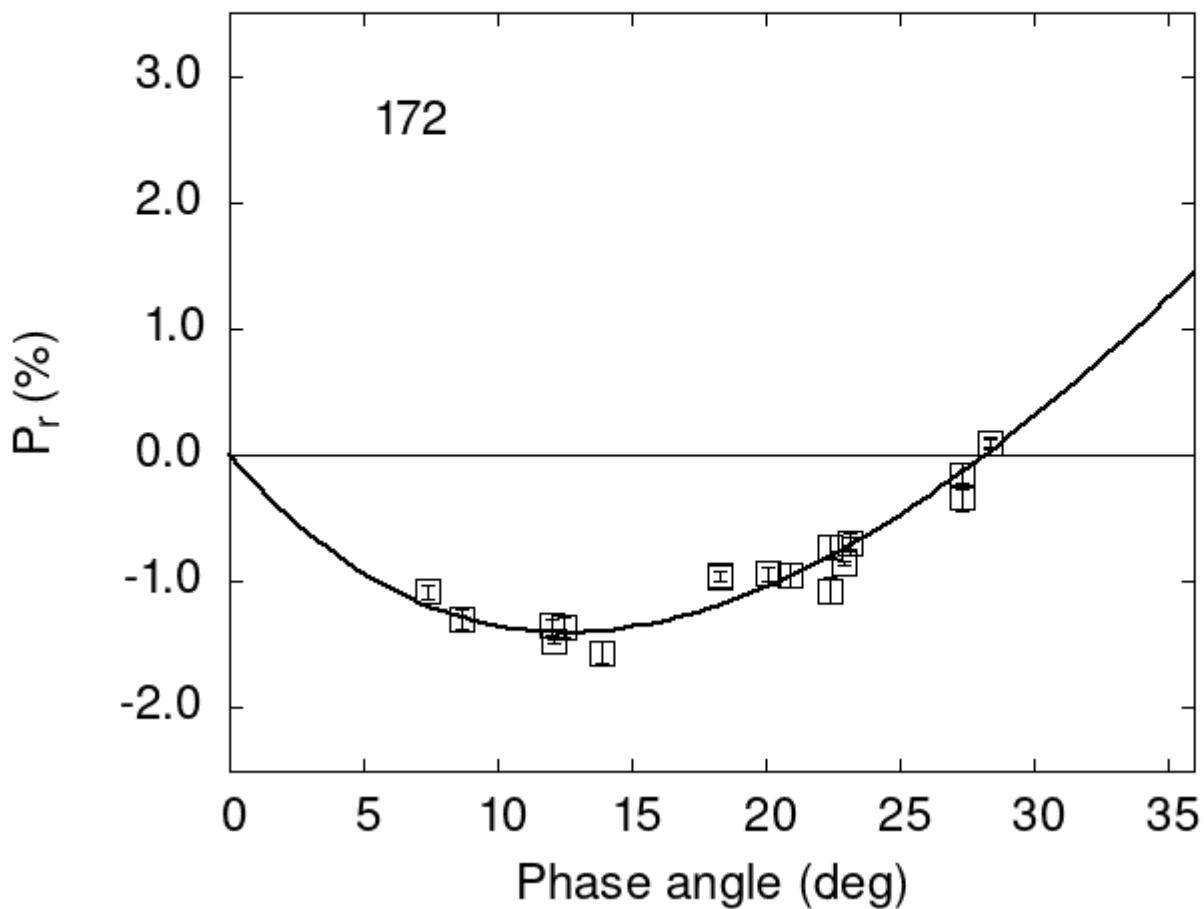


Catalogue of Asteroid Polarization Curves

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.

172	8.70	-1.30	0.08	V	f
172	12.00	-1.34	0.09	V	f
172	12.50	-1.36	0.08	V	f
172	13.92	-1.56	0.09	V	f
172	20.93	-0.95	0.09	V	f
172	23.17	-0.70	0.09	V	f

```

172 18.30 -0.95 0.04 V f
172 7.41 -1.08 0.06 G a
172 22.43 -0.72 0.09 V a
172 22.43 -1.07 0.10 R a
172 28.40 0.09 0.04 V a
172 28.40 0.10 0.04 V a
172 22.90 -0.85 0.02 V a
172 12.10 -1.47 0.02 V a
172 20.10 -0.94 0.05 V a
172 18.30 -0.96 0.04 V a
172 27.30 -0.33 0.11 V a
172 27.30 -0.16 0.10 V a
172 23.17 -0.70 0.05 V a
172 12.00 -1.34 0.04 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
# 12.0369  0.4497  21.5905  0.5891  0.3111  0.0080
#
#      Phmin      err      Pmin      err      Ph0      err      k      err
# 12.59  1.01 -1.401  0.247 28.20  0.25 0.1601 0.0099

```