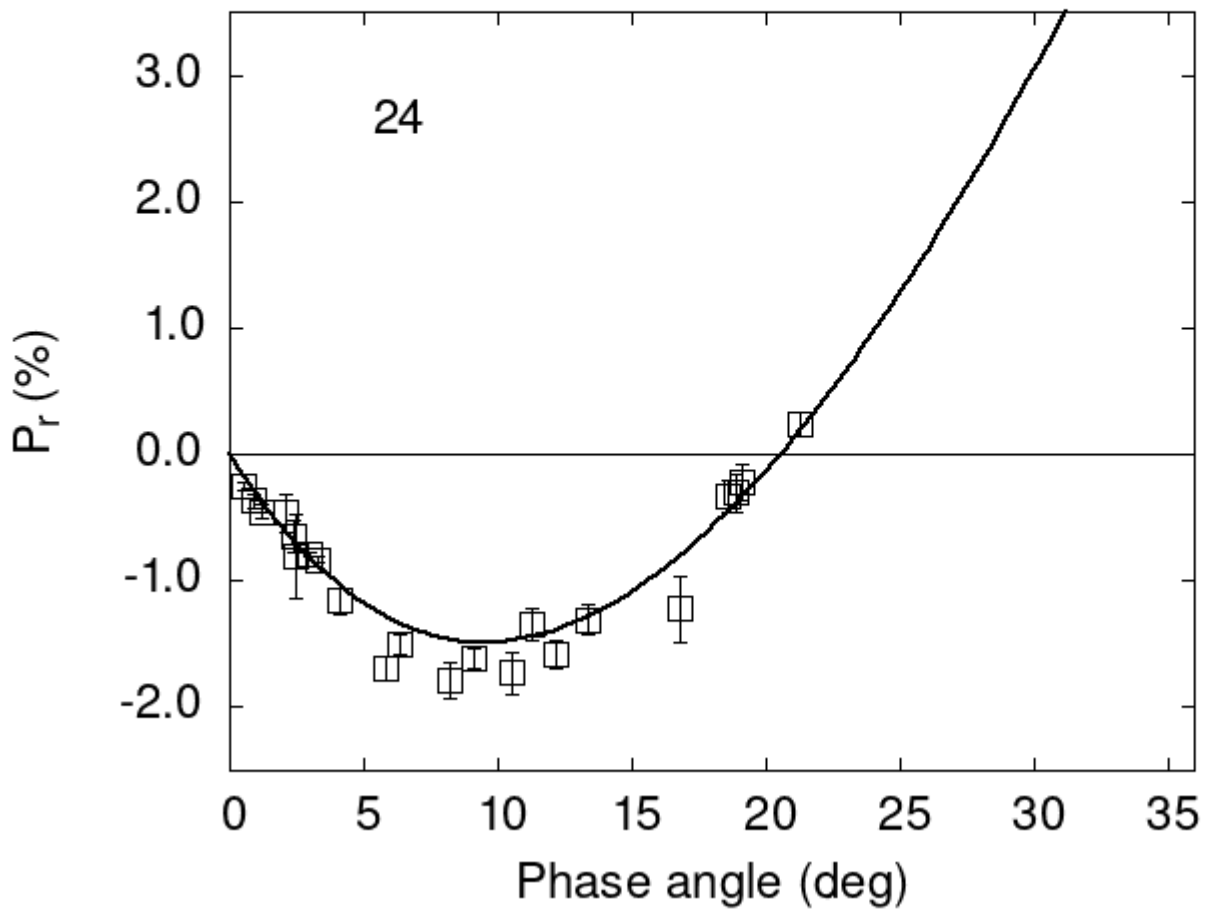


Catalogue of Asteroid Polarization Curves

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.

24	5.83	-1.69	0.10	V	f
24	6.36	-1.50	0.08	V	f
24	9.09	-1.61	0.08	V	f
24	16.78	-1.22	0.26	V	f
24	21.32	0.24	0.10	V	f
24	2.10	-0.46	0.15	V	a

```

24  2.50 -0.81 0.33 V a
24  4.10 -1.16 0.10 V a
24 10.50 -1.73 0.17 V a
24 11.30 -1.34 0.13 V a
24 12.20 -1.58 0.11 V a
24 13.40 -1.31 0.12 V a
24 18.60 -0.33 0.13 V a
24 18.90 -0.30 0.15 V a
24 19.10 -0.22 0.15 V a
24  0.54 -0.25 0.03 R a
24  0.89 -0.37 0.06 R a
24  1.22 -0.45 0.05 R a
24  3.00 -0.79 0.02 V a
24  3.30 -0.83 0.02 V a
24  2.40 -0.65 0.13 R b
24  8.20 -1.79 0.14 V h

```

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
# 22.0155    0.7885    22.5134    0.4912    0.6411    0.0169
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      9.51    1.04 -1.489    0.342 20.55    0.16 0.2486 0.0220

```