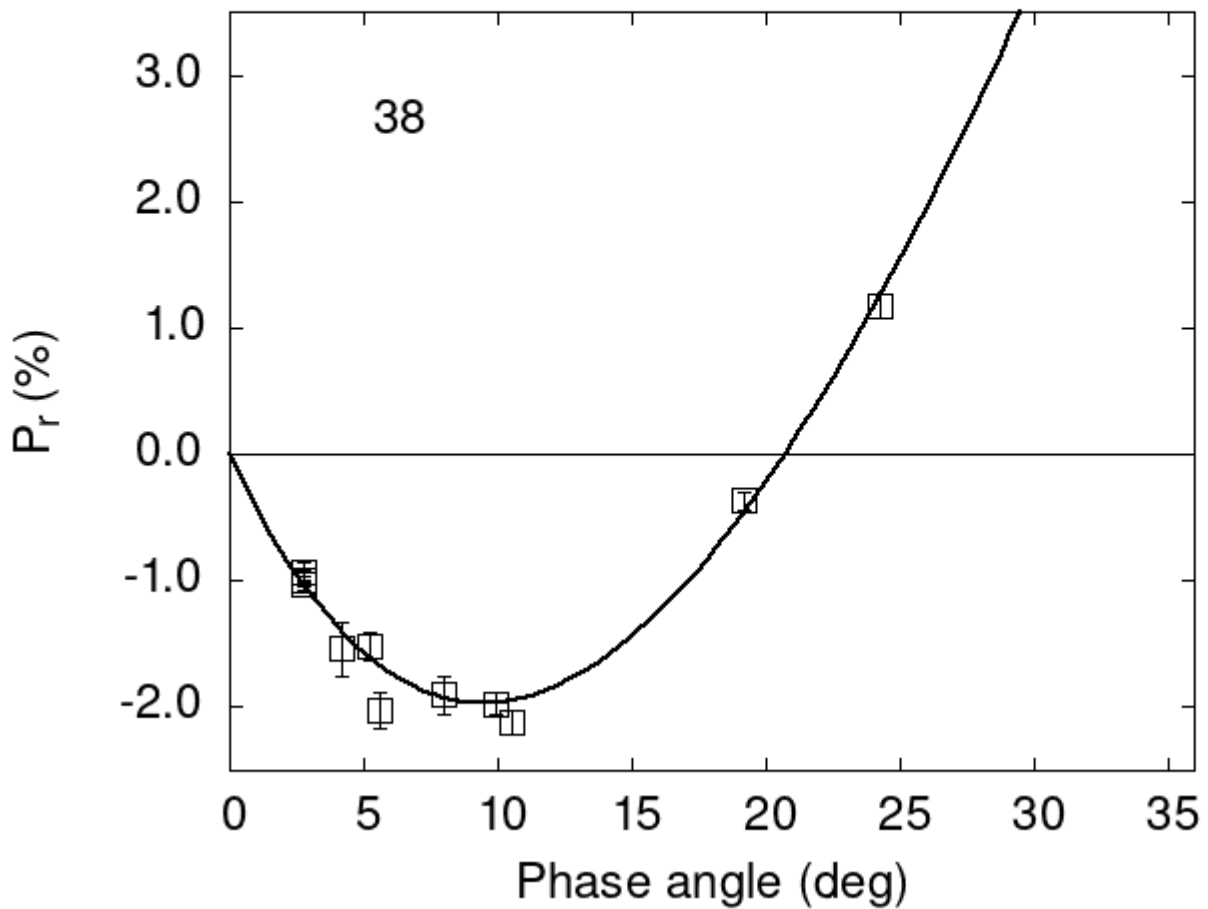


Catalogue of Asteroid Polarization Curves

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.

38	2.74	-0.93	0.08	V	f
38	2.74	-1.00	0.08	R	f
38	5.20	-1.52	0.11	V	f
38	5.58	-2.03	0.14	V	f
38	7.97	-1.90	0.15	V	f
38	9.96	-1.97	0.09	V	f

```

38 10.52 -2.12 0.10 V f
38 24.25 1.17 0.09 V f
38 2.74 -1.02 0.03 V a
38 2.74 -1.00 0.04 R a
38 4.20 -1.54 0.21 V h
38 19.20 -0.37 0.07 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
# 22.7679  0.9635  19.3975  0.4690  0.7210  0.0225
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      9.45  1.05 -1.967  0.459  20.73  0.13  0.3179  0.0282

```