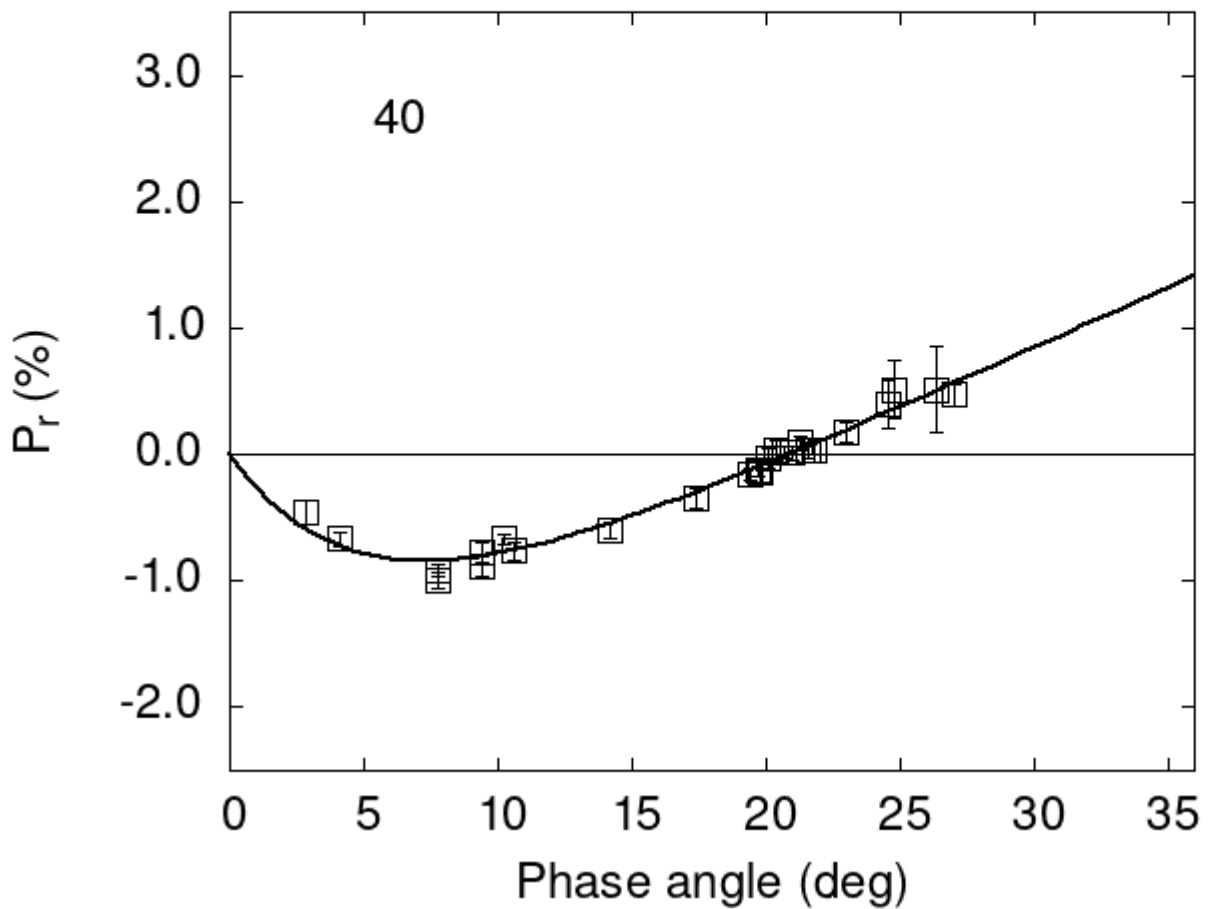


Catalogue of Asteroid Polarization Curves

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.

40	2.87	-0.46	0.09	V	f
40	21.83	0.03	0.09	V	f
40	23.04	0.17	0.08	V	f
40	26.36	0.51	0.34	G	a
40	24.76	0.51	0.23	G	a
40	24.59	0.40	0.19	G	a

```

40 17.42 -0.34 0.08 G a
40 14.22 -0.60 0.07 G a
40 10.59 -0.76 0.07 G a
40 4.13 -0.67 0.06 G a
40 19.80 -0.14 0.09 G a
40 10.26 -0.67 0.04 G a
40 21.60 0.03 0.06 V a
40 21.30 0.09 0.06 V a
40 21.00 0.01 0.05 V a
40 20.70 0.02 0.05 V a
40 20.40 0.04 0.08 V a
40 20.10 -0.03 0.08 V a
40 19.70 -0.12 0.06 V a
40 19.40 -0.16 0.05 V a
40 9.40 -0.88 0.08 V a
40 9.40 -0.77 0.08 R a
40 7.80 -0.92 0.05 V a
40 7.80 -1.00 0.06 R a
40 27.00 0.47 0.09 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
#      2.0272    0.2138    5.1337    0.7182    0.0953    0.0090
#
#      Phmin    err    Pmin    err    Ph0    err    k      err
#      7.30    0.79 -0.843    0.200 20.91    0.45 0.0886 0.0095

```