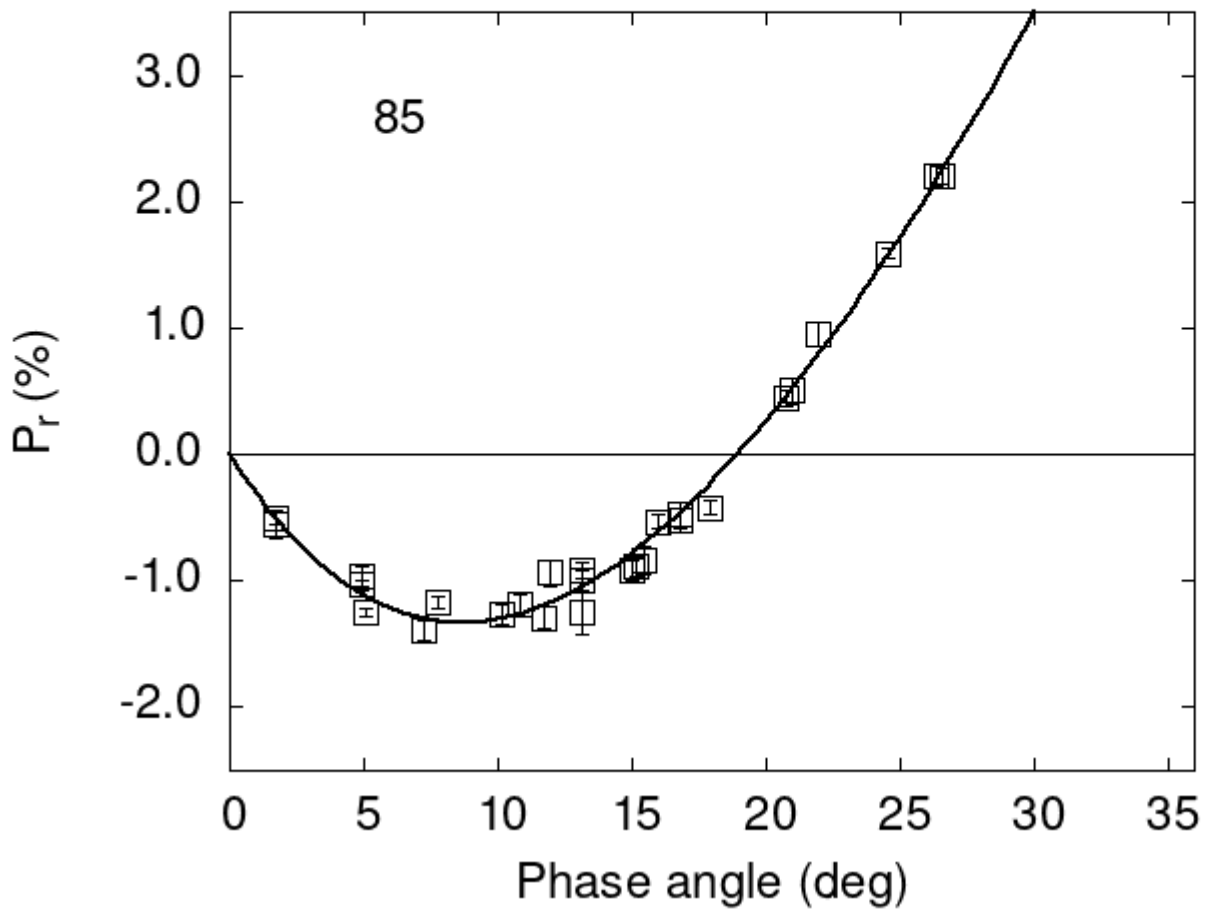


Catalogue of Asteroid Polarization Curves

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.

85	7.26	-1.39	0.08	V	f
85	10.13	-1.27	0.08	V	f
85	10.81	-1.19	0.09	V	f
85	11.95	-0.94	0.10	V	f
85	13.11	-0.99	0.08	V	f
85	15.03	-0.91	0.08	V	f

```

85 15.13 -0.88 0.08 V f
85 15.49 -0.84 0.11 V f
85 21.99 0.95 0.09 V f
85 26.37 2.20 0.08 V f
85 5.10 -1.25 0.03 V f
85 1.72 -0.55 0.11 V a
85 1.72 -0.50 0.06 R a
85 4.95 -0.97 0.08 V a
85 4.95 -1.03 0.04 R a
85 13.18 -1.25 0.17 V a
85 13.18 -0.92 0.06 R a
85 16.80 -0.52 0.09 V a
85 16.80 -0.48 0.10 R a
85 7.80 -1.17 0.05 V a
85 16.00 -0.53 0.06 V a
85 24.60 1.59 0.04 V a
85 11.70 -1.29 0.09 V a
85 20.80 0.44 0.06 V a
85 17.90 -0.42 0.06 V a
85 21.00 0.50 0.11 V a
85 26.60 2.20 0.06 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
# 15.9717  1.1504  18.1684  0.9042  0.5456  0.0245
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      8.67  1.61 -1.331  0.539 18.96  0.17 0.2360 0.0331

```