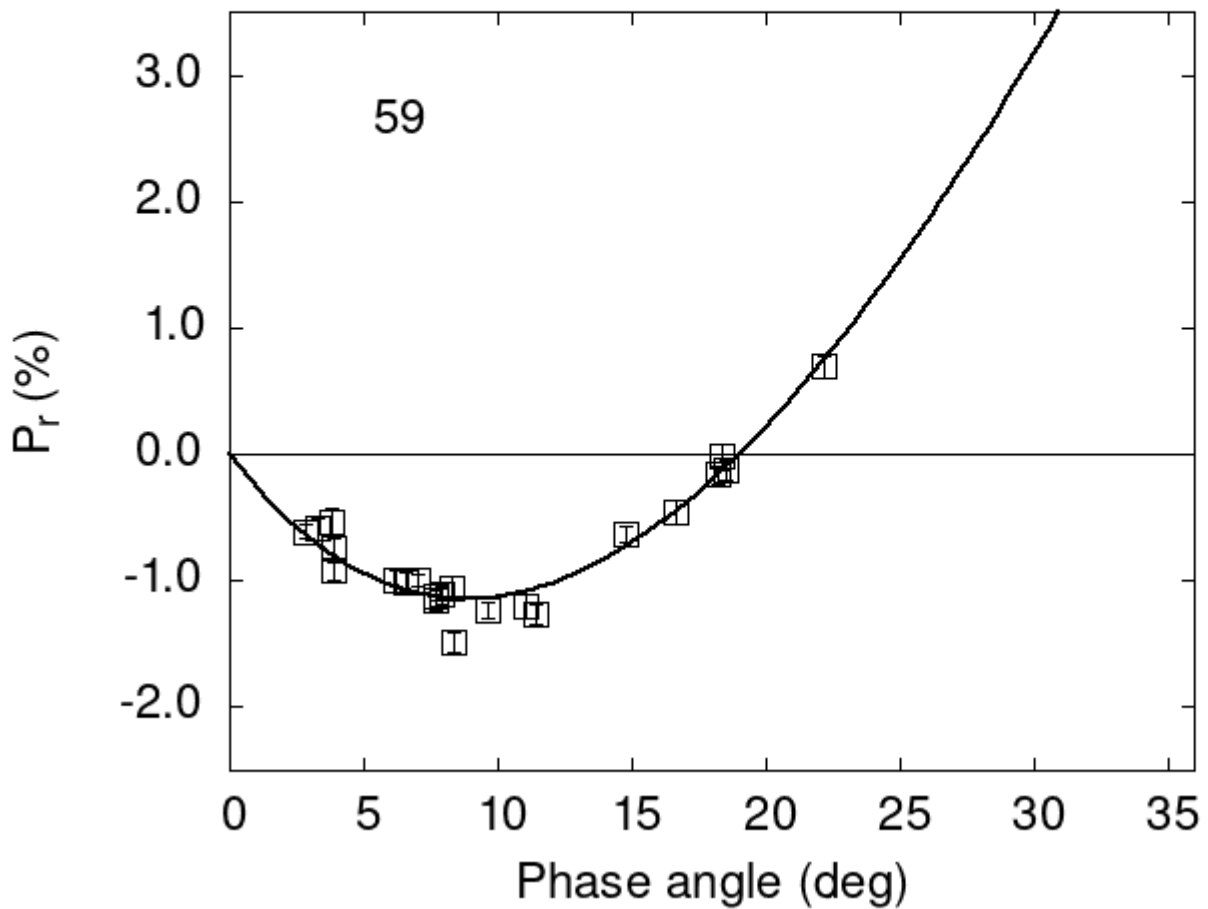


Catalogue of Asteroid Polarization Curves

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.

59	3.82	-0.53	0.11	V	f
59	3.90	-0.74	0.08	V	f
59	6.22	-1.00	0.09	V	f
59	7.67	-1.16	0.08	V	f
59	8.28	-1.06	0.09	V	f
59	11.06	-1.20	0.10	V	f

```

59 11.41 -1.26 0.08 V f
59 16.64 -0.46 0.09 V f
59 18.40 -0.02 0.10 V f
59 18.55 -0.12 0.08 V f
59 22.19 0.69 0.09 V f
59 7.00 -1.00 0.05 V a
59 6.60 -1.01 0.07 V a
59 9.60 -1.23 0.06 V a
59 14.80 -0.63 0.06 V a
59 8.40 -1.48 0.08 R a
59 7.95 -1.11 0.07 R a
59 3.87 -0.92 0.07 R a
59 2.84 -0.61 0.06 R a
59 3.25 -0.59 0.09 R a
59 18.26 -0.16 0.07 R a
59 7.67 -1.13 0.03 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
# 20.0212  0.7013  23.1298  0.5878  0.5900  0.0130
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      8.87  1.02 -1.144  0.284 19.02  0.19 0.2097 0.0187

```