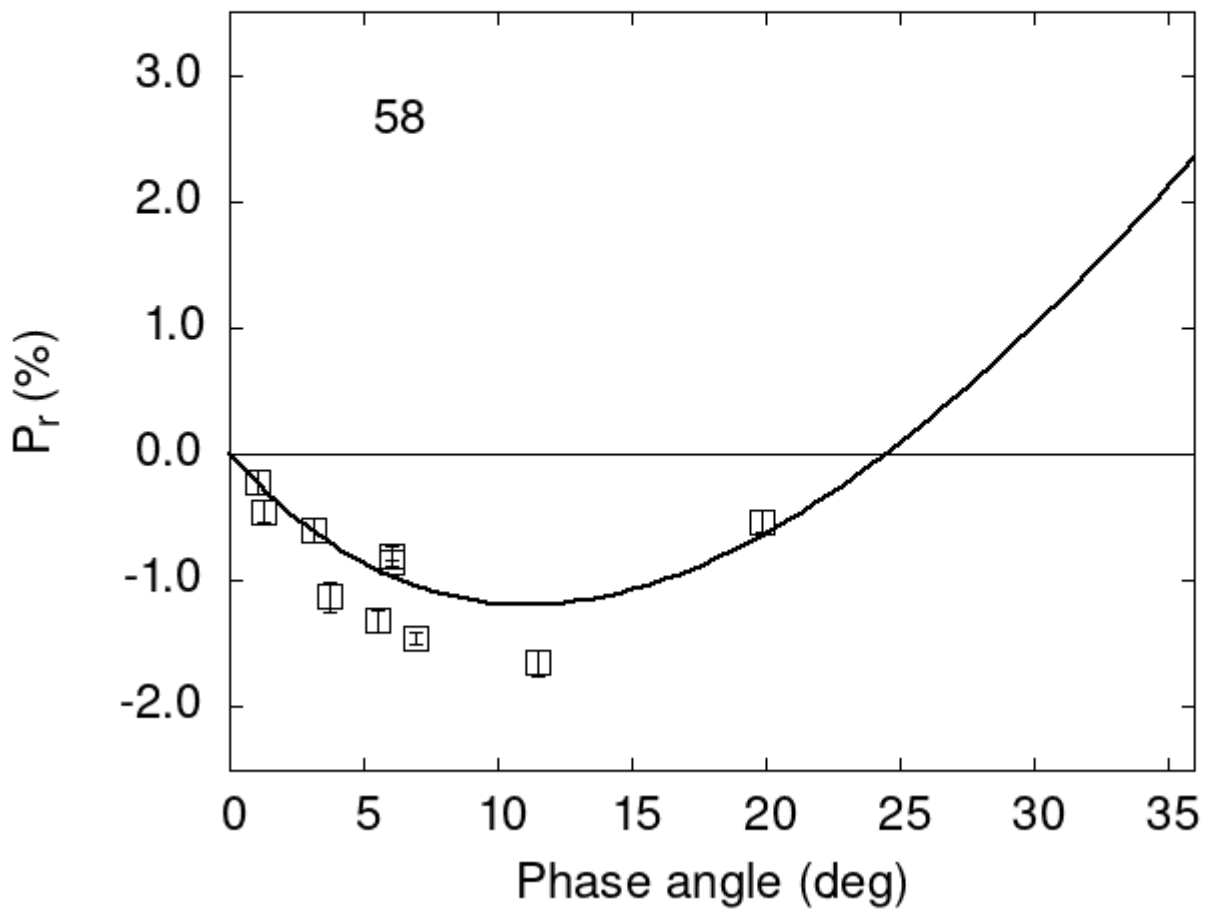


Catalogue of Asteroid Polarization Curves

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.

58	1.08	-0.22	0.09	V	f
58	1.29	-0.45	0.08	V	f
58	3.70	-1.13	0.12	V	f
58	5.56	-1.32	0.09	V	f
58	6.05	-0.81	0.09	V	f
58	11.52	-1.65	0.10	V	f

```

58 19.88 -0.53 0.09 V f
58 6.97 -1.45 0.05 G a
58 6.05 -0.86 0.02 V a
58 3.10 -0.60 0.10 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
# 12.6270  0.4620  21.6167  0.6678  0.3494  0.0126
#
#      Phmin  err  Pmin  err  Ph0  err  k      err
# 11.11  1.16 -1.192  0.262  24.50  0.25  0.1614  0.0144

```