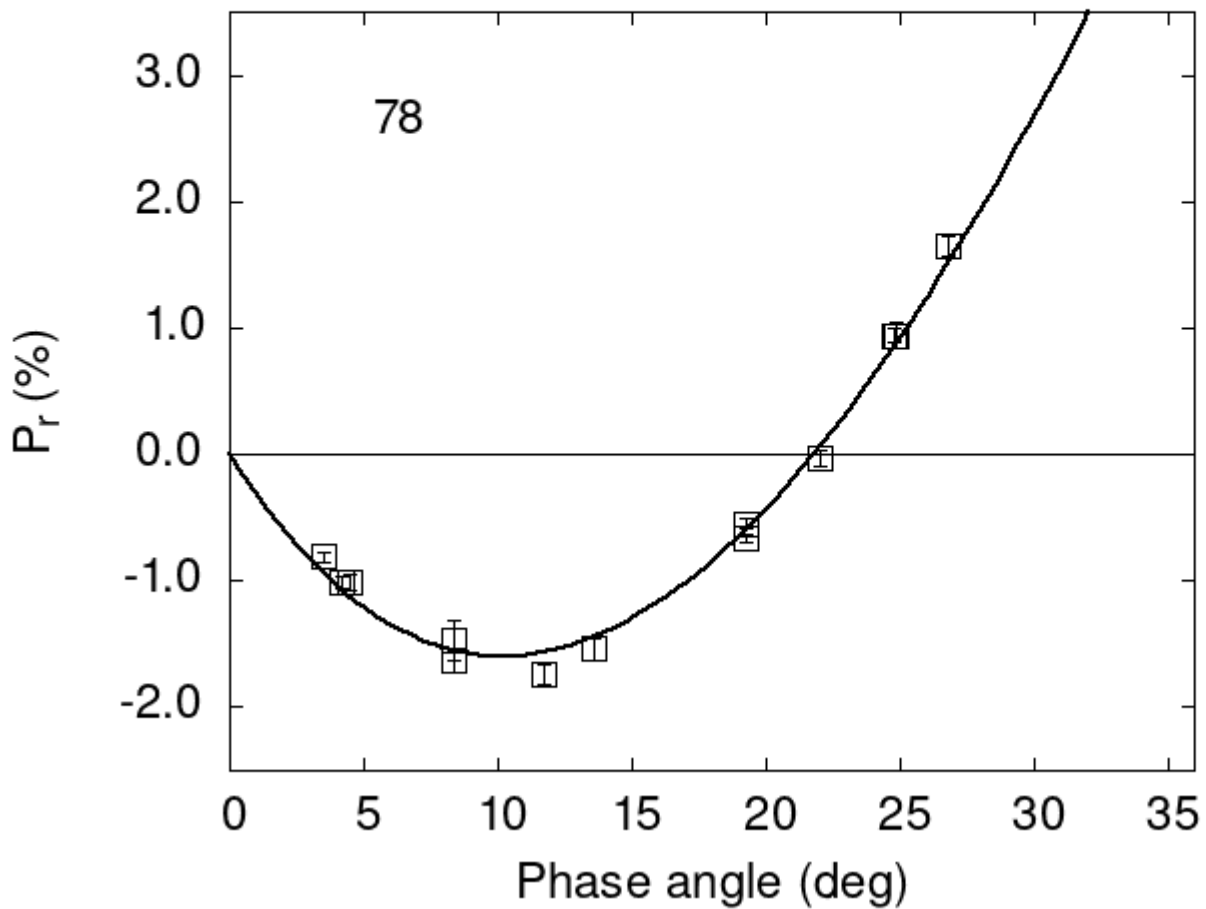


Catalogue of Asteroid Polarization Curves

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.

78	11.72	-1.74	0.08	V	f
78	13.60	-1.54	0.09	V	f
78	24.84	0.94	0.10	V	f
78	26.85	1.65	0.08	V	f
78	4.50	-1.01	0.06	V	f
78	4.20	-1.01	0.05	V	f

```

78  8.40 -1.47 0.16 V a
78  8.40 -1.63 0.09 R a
78 19.30 -0.66 0.03 V a
78 19.30 -0.55 0.04 V a
78 24.82  0.94 0.06 V a
78 22.00 -0.03 0.06 V a
78  3.50 -0.81 0.04 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
# 30.8875    0.8899  28.1565    0.5791    0.7634    0.0128
#
#      Phmin    err  Pmin    err  Ph0    err    k      err
#      10.21    1.01 -1.6000  0.341 21.82  0.16 0.2579 0.0196

```