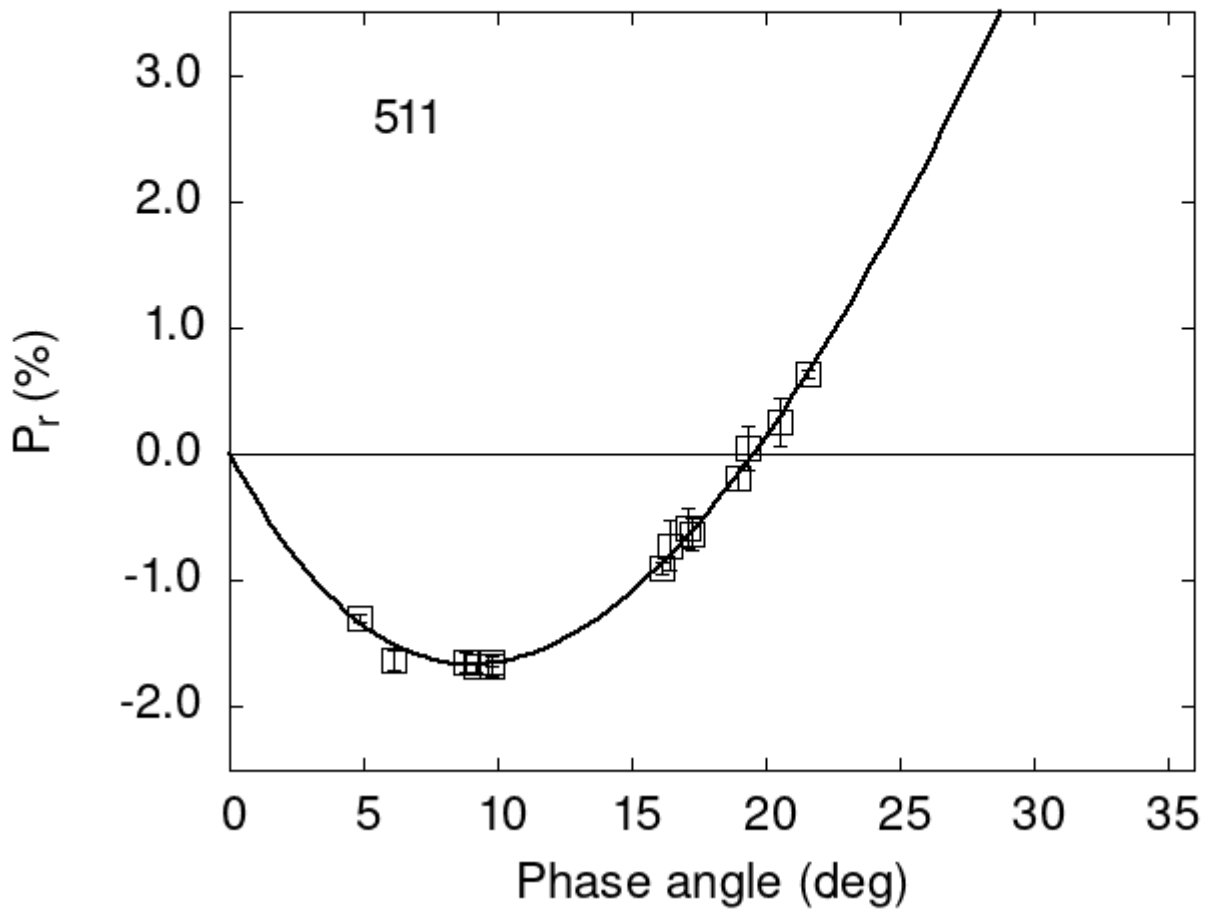


Catalogue of Asteroid Polarization Curves

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.

511	6.14	-1.63	0.08	V	f
511	8.83	-1.64	0.08	V	f
511	9.78	-1.68	0.08	V	f
511	19.33	0.05	0.17	G	a
511	18.95	-0.19	0.09	G	a
511	17.22	-0.63	0.13	G	a

```

511 17.07 -0.59 0.16 G a
511 16.44 -0.72 0.20 G a
511 20.52 0.25 0.19 G a
511 21.59 0.64 0.03 G a
511 16.15 -0.90 0.05 G a
511 9.22 -1.68 0.04 G a
511 4.84 -1.30 0.03 G a
511 9.78 -1.65 0.02 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
# 24.9581  0.6919  21.6183  0.3942  0.7597  0.0135
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.05  0.75 -1.662  0.294  19.55  0.14 0.2923 0.0187

```