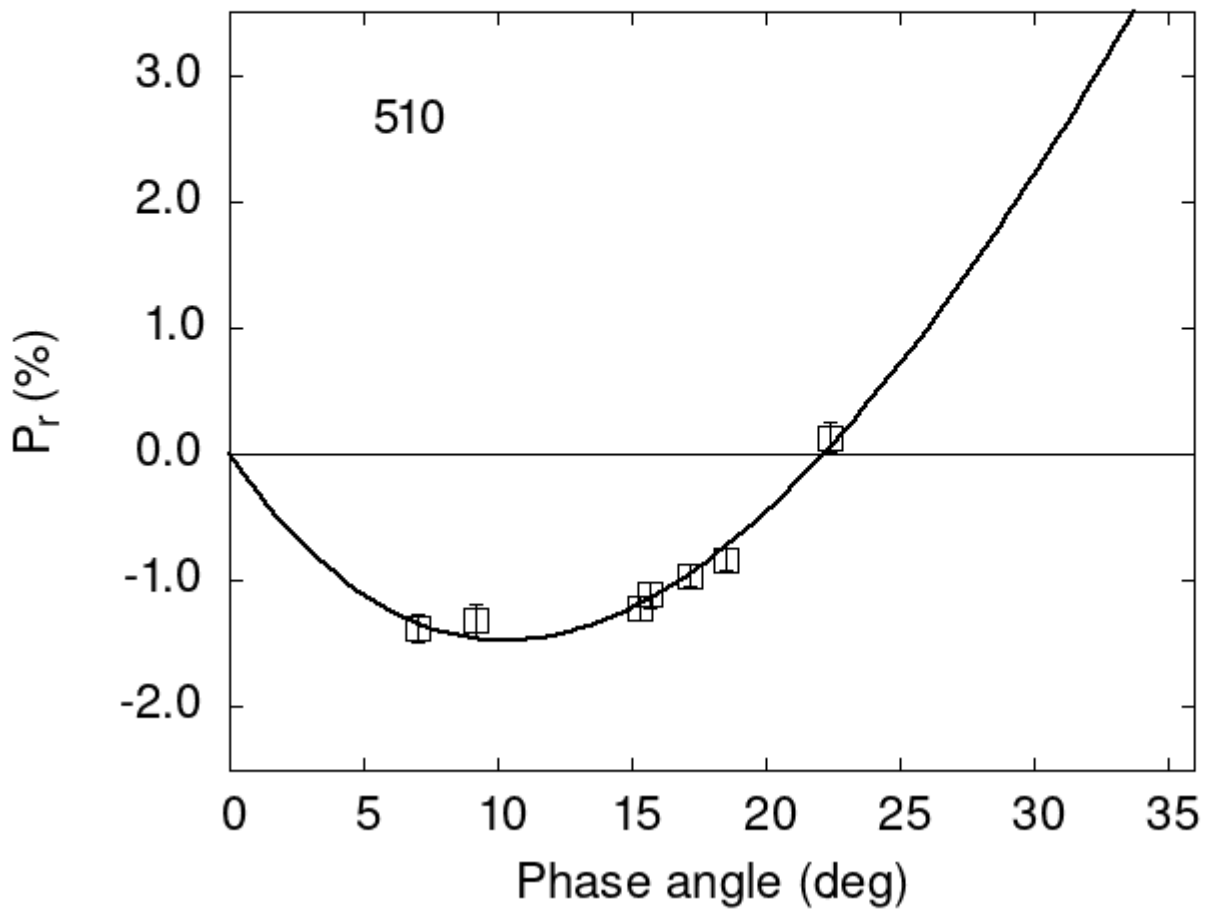


Catalogue of Asteroid Polarization Curves

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.

```
510 7.02 -1.37 0.11 V f
510 9.18 -1.32 0.14 V f
510 15.33 -1.22 0.09 V f
510 15.71 -1.11 0.10 V f
510 17.15 -0.96 0.09 V f
510 18.52 -0.83 0.09 V f
```

510 22.37 0.13 0.12 V f

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
# 21.8459  0.7831  24.3228  0.9553  0.5892  0.0213
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      10.25  1.36 -1.473  0.420 22.18  0.18 0.2283 0.0250
```