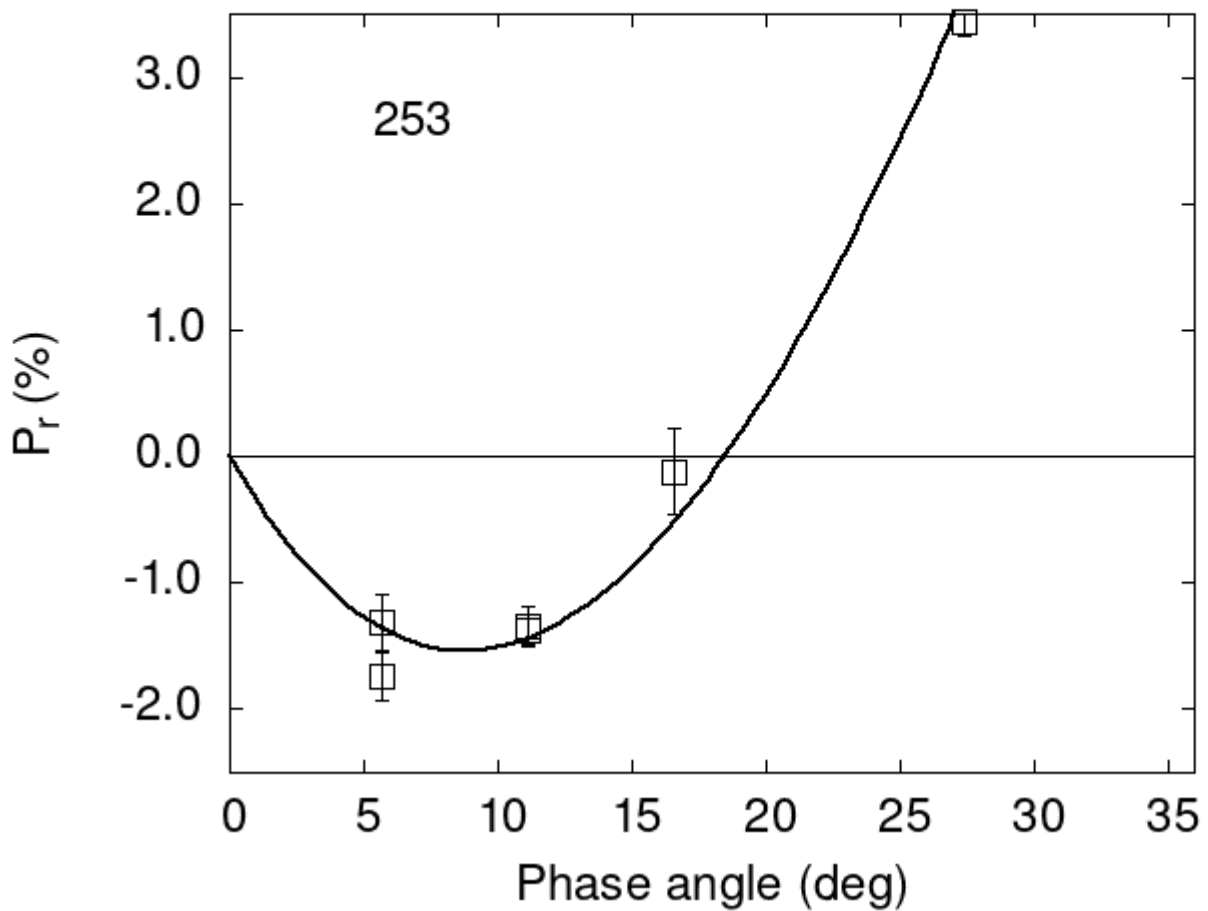


Catalogue of Asteroid Polarization Curves

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.

```
253 16.58 -0.12 0.34 R f
253  5.65 -1.31 0.22 V a
253  5.65 -1.74 0.19 R a
253 11.10 -1.34 0.15 V a
253 11.10 -1.38 0.13 R a
253 27.40  3.43 0.10 V a
```

253 30.19 5.12 0.17 V a
 253 30.19 5.35 0.12 R 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
# 46.2682  1.5200  31.0193  0.8869  1.1235  0.0225
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      8.79  1.35 -1.541  0.510 18.49 0.13 0.3018 0.0364
```