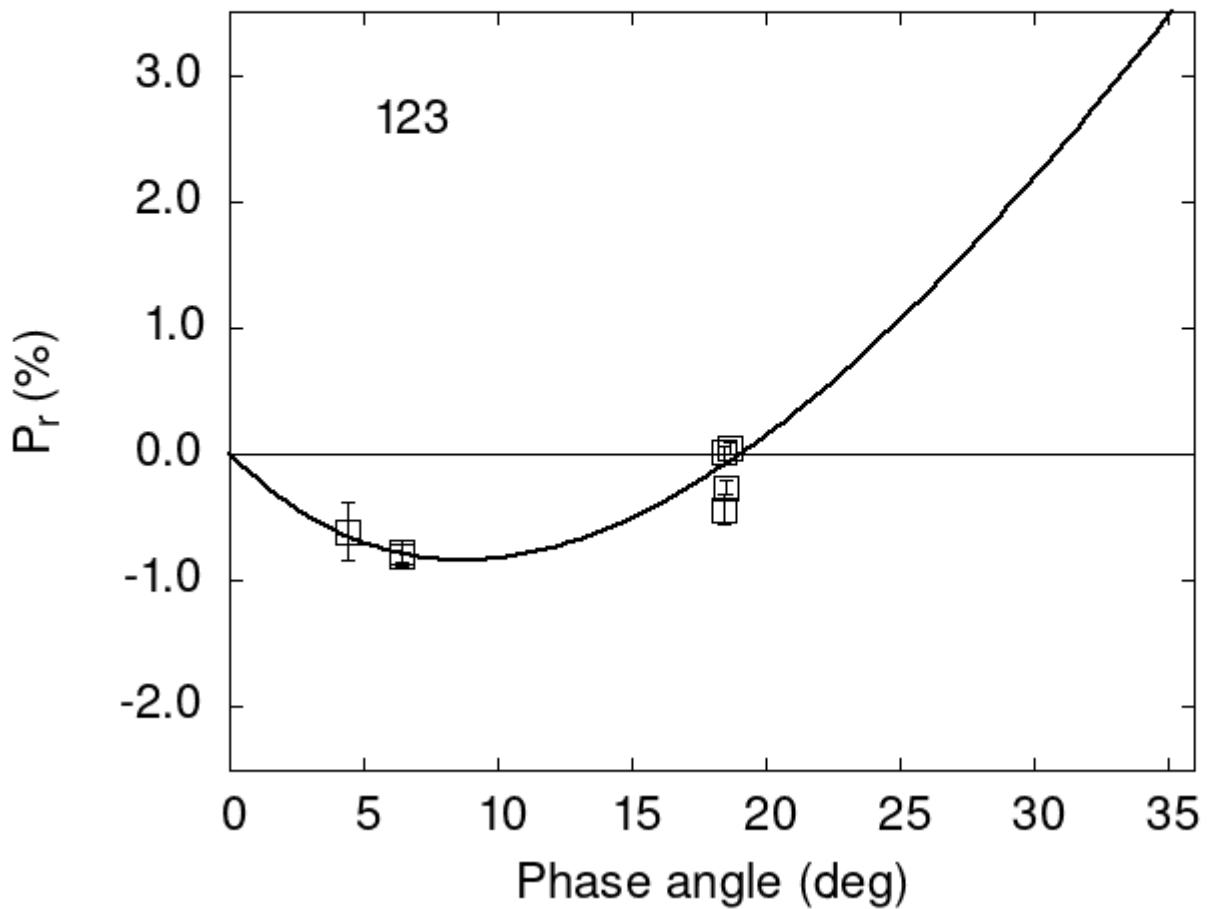


# Catalogue of Asteroid Polarization Curves

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.

123	6.46	-0.77	0.09	V	f
123	6.46	-0.80	0.09	V	f
123	18.45	-0.44	0.12	V	a
123	18.45	0.01	0.06	R	a
123	4.40	-0.61	0.23	V	a
123	18.50	-0.26	0.06	V	a

123 18.70 0.05 0.05 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  $\alpha$  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
# 10.8449  0.1588  19.1718  1.0401  0.3583  0.0102
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      8.76  0.83 -0.839  0.201 19.07  0.27 0.1490 0.0107
```