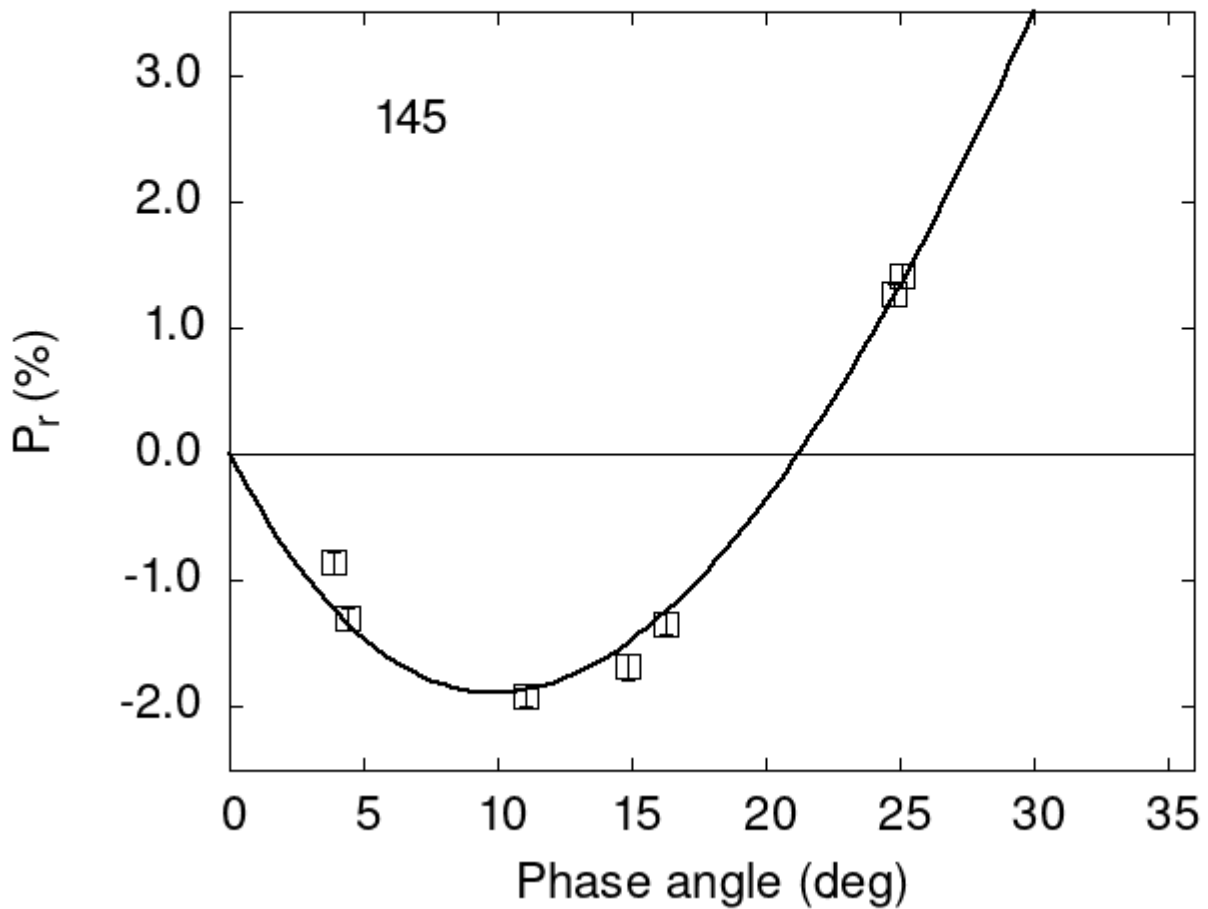


# Catalogue of Asteroid Polarization Curves

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.

145	3.85	-0.86	0.09	V	f
145	4.40	-1.30	0.09	V	f
145	11.09	-1.91	0.09	V	f
145	14.85	-1.68	0.10	V	f
145	24.78	1.26	0.09	V	f
145	25.06	1.41	0.09	V	f

145 16.30 -1.34 0.09 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
# 33.4924  1.2279  26.0286  0.6940  0.8797  0.0221
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      9.90  1.23 -1.887  0.503 21.23 0.13 0.3104 0.0305
```