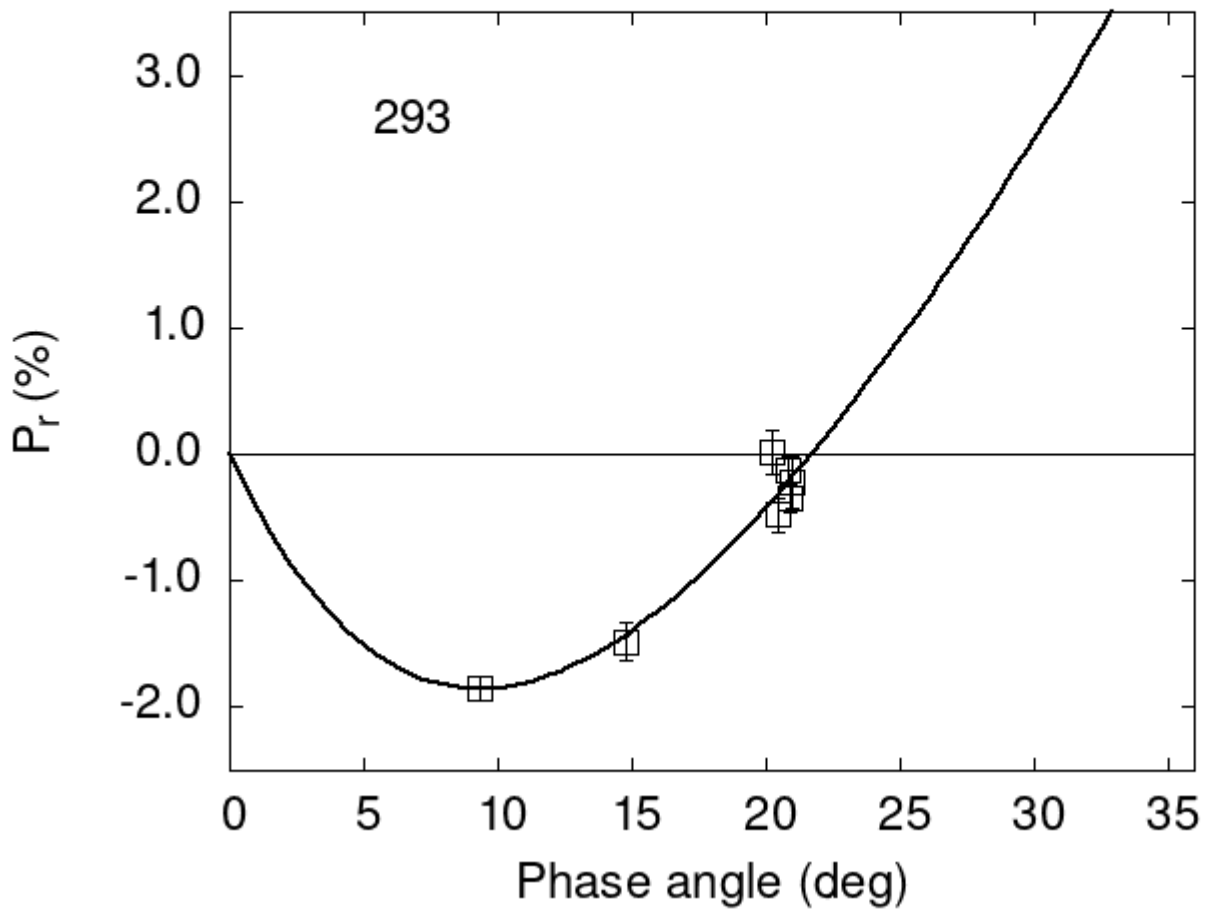


# Catalogue of Asteroid Polarization Curves

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.

```
293  9.30 -1.85 0.09 V f
293 14.78 -1.48 0.15 V f
293 20.26  0.02 0.17 V f
293 20.44 -0.48 0.14 V f
293 20.87 -0.13 0.11 V f
293 20.91 -0.34 0.11 V f
```

293 21.01 -0.22 0.20 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  $\alpha$  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
# 10.9529  0.3828  12.6574  0.6753  0.4134  0.0111
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.35  0.58 -1.855  0.305 21.73  0.16 0.2579 0.0137
```