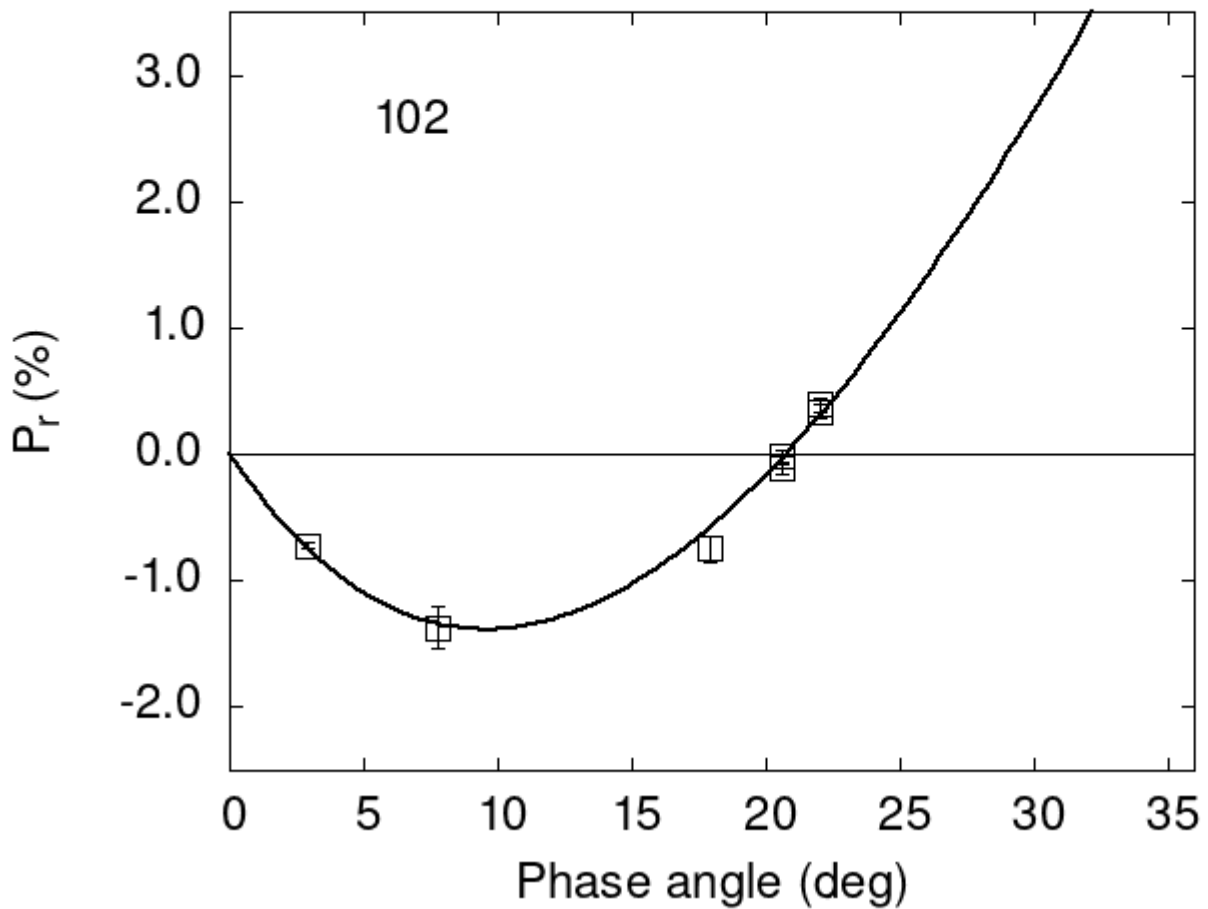


# Catalogue of Asteroid Polarization Curves

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.

```
102  7.80 -1.37 0.17 V f
102  2.90 -0.72 0.03 V a
102 22.03  0.39 0.06 V a
102 22.03  0.34 0.05 R a
102 20.64 -0.02 0.06 V a
102 20.64 -0.11 0.05 R a
```

102 17.90 -0.75 0.10 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
# 19.4750  0.6618  21.9940  0.6885  0.5731  0.0125
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.57  0.97 -1.387  0.313 20.76  0.18 0.2285 0.0171
```