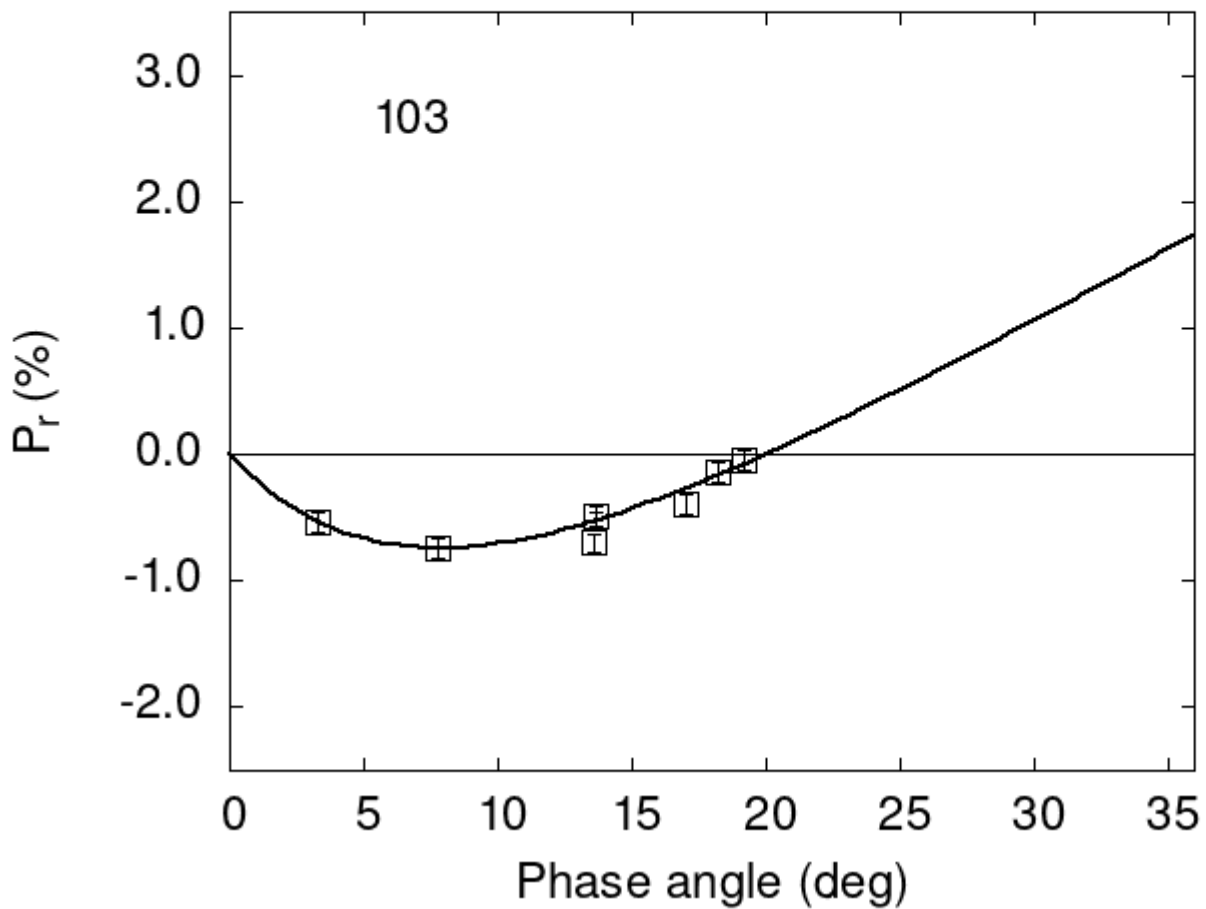


# Catalogue of Asteroid Polarization Curves

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.

```
103 3.29 -0.54 0.08 V f
103 7.75 -0.74 0.08 V f
103 13.70 -0.49 0.08 V f
103 17.05 -0.40 0.08 V f
103 18.22 -0.14 0.08 V f
103 19.16 -0.04 0.08 V f
```

103 13.70 -0.49 0.03 V a  
 103 13.60 -0.70 0.07 V h

## 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
#      2.5127    0.4115    7.2369    1.3213    0.1175    0.0171
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      7.84    1.59 -0.741    0.347 20.04    0.42 0.0957 0.0188
```