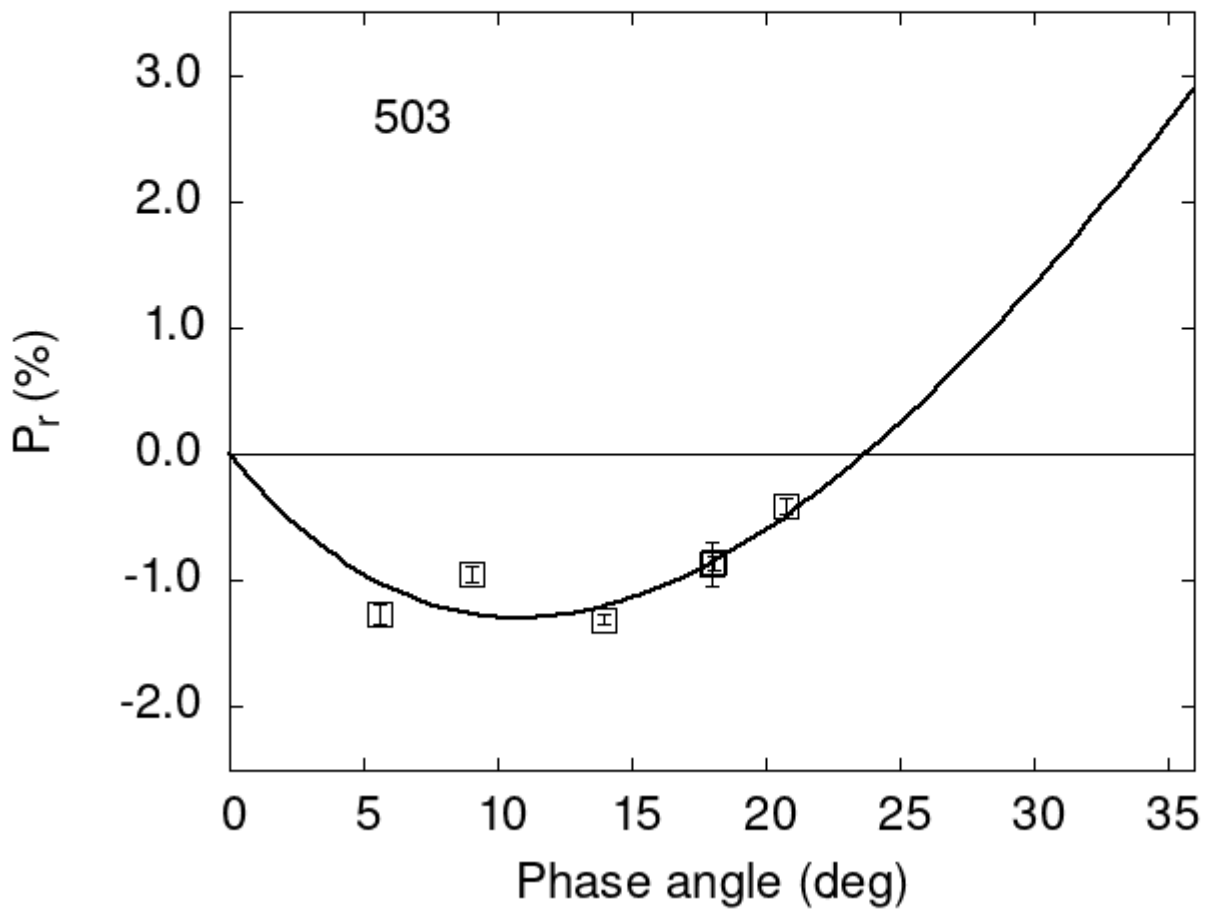


Catalogue of Asteroid Polarization Curves

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.

503	5.59	-1.26	0.08	V	f
503	9.03	-0.95	0.06	V	a
503	13.95	-1.31	0.04	V	a
503	20.80	-0.41	0.06	V	a
503	18.10	-0.86	0.05	V	a
503	18.00	-0.87	0.17	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 α 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
# 14.4856  0.5634  21.7136  1.0372  0.4058  0.0105
#
#      Phmin  err  Pmin   err  Ph0    err   k      err
#      10.79  1.14 -1.294  0.324 23.71  0.22  0.1820 0.0136
```