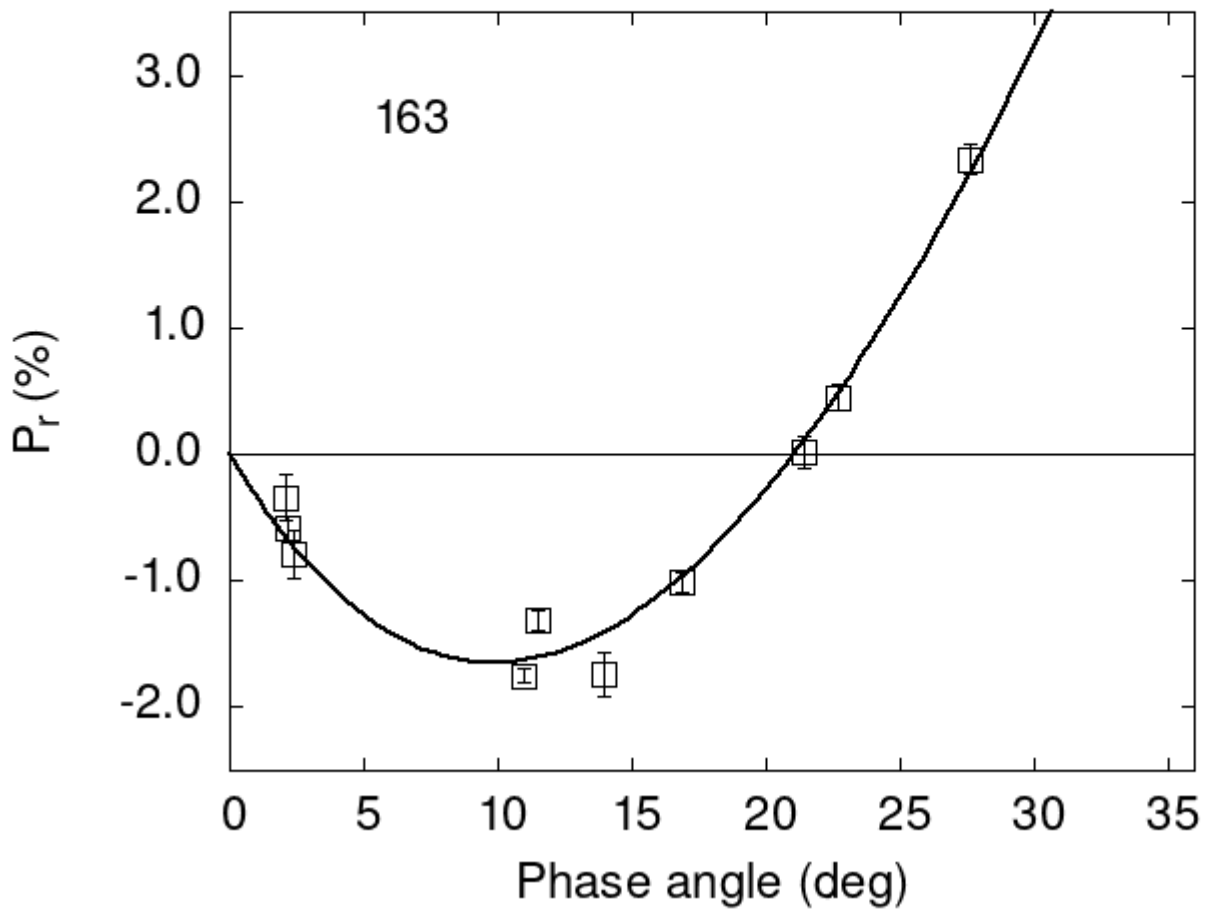


Catalogue of Asteroid Polarization Curves

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.

163	2.08	-0.34	0.18	V	f
163	2.19	-0.59	0.10	V	f
163	2.36	-0.79	0.19	V	f
163	16.88	-1.01	0.08	V	f
163	21.45	0.02	0.13	V	f
163	22.72	0.45	0.10	V	f

```

163 27.64 2.33 0.12 V f
163 11.00 -1.75 0.06 V a
163 11.50 -1.31 0.08 V a
163 14.00 -1.74 0.18 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 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
# 34.1987  1.2205  28.4059  0.7355  0.8500  0.0201
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      9.89  1.31 -1.649  0.464 21.06 0.14 0.2764 0.0289

```