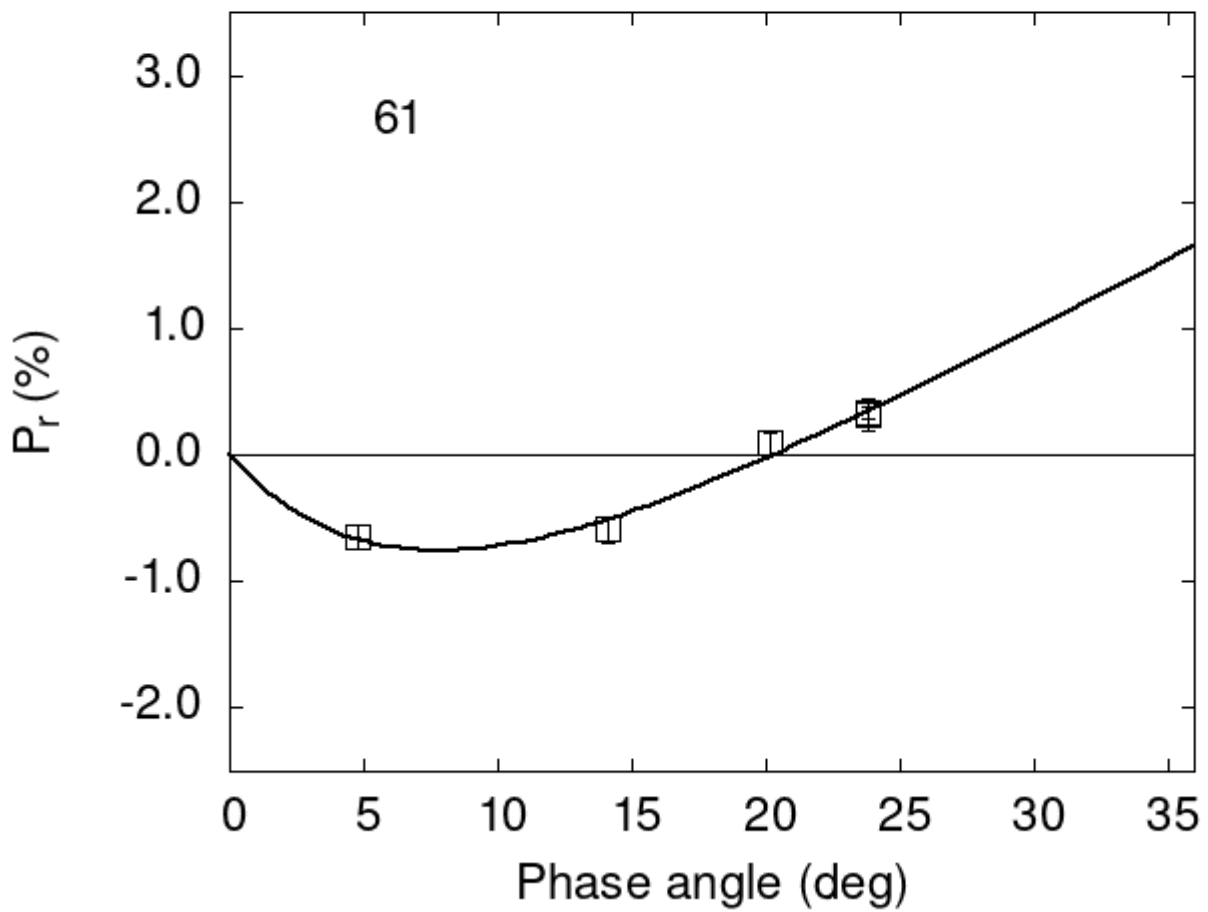


# Catalogue of Asteroid Polarization Curves

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.

61	4.77	-0.65	0.09	V	f
61	14.13	-0.59	0.10	V	f
61	20.17	0.09	0.09	V	f
61	23.83	0.32	0.13	V	f
61	23.83	0.33	0.05	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
#      2.4104    0.5569    6.8925    1.8670    0.1124    0.0204
#
#      Phmin    err    Pmin      err    Ph0      err      k      err
#      7.82    2.04 -0.757    0.474  20.32    0.43  0.0940  0.0229
```