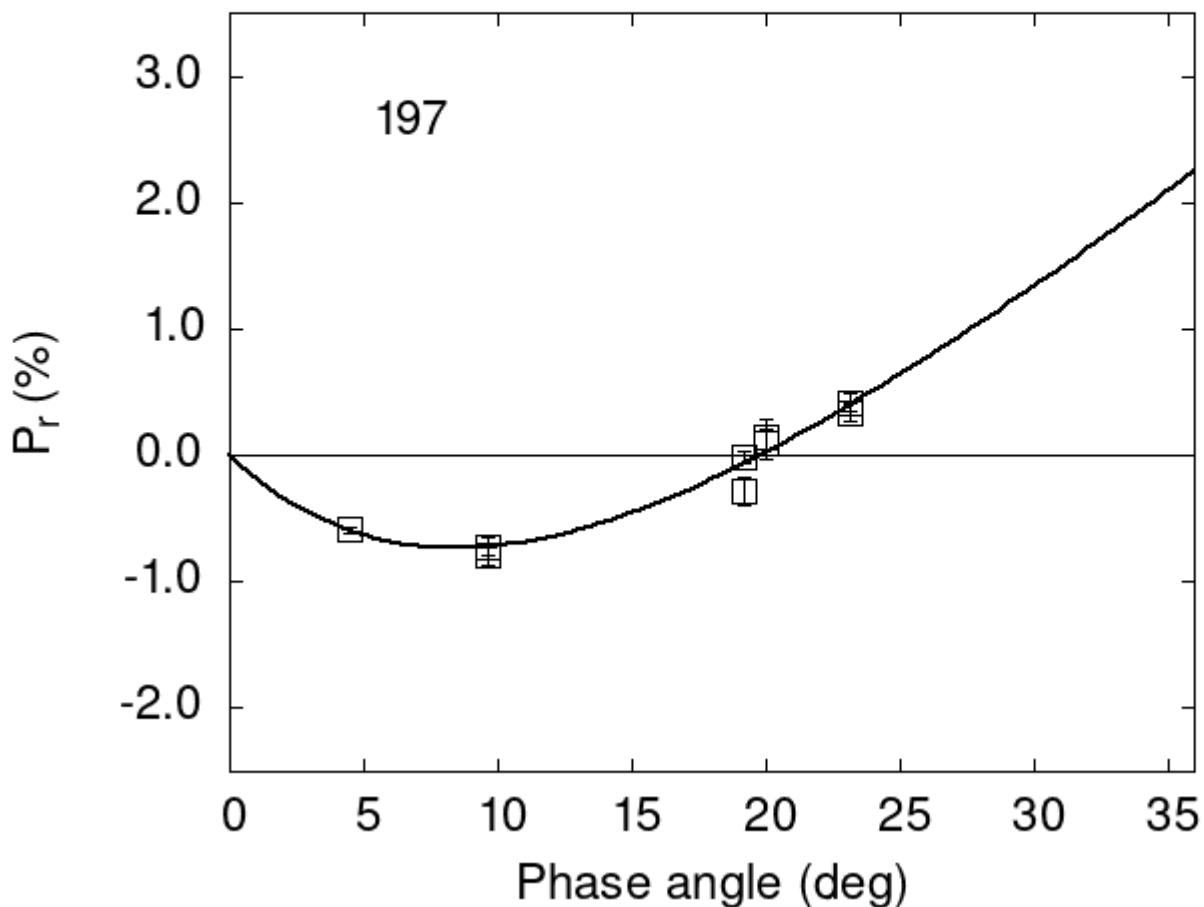


Catalogue of Asteroid Polarization Curves

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.

197	23.17	0.42	0.07	V	f
197	23.17	0.34	0.07	R	f
197	9.61	-0.79	0.08	V	f
197	9.61	-0.72	0.07	R	f
197	19.99	0.14	0.14	V	a
197	19.99	0.09	0.12	R	a

```

197 19.19 -0.28 0.11 V a
197 19.19 -0.01 0.05 R a
197 4.50 -0.59 0.02 V a
197 9.61 -0.79 0.08 V b
197 9.61 -0.72 0.07 R b
197 23.17 0.42 0.07 V b
197 23.17 0.34 0.07 R b

```

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
# 4.0259  0.3751  10.9084  0.8717  0.1700  0.0109
#
#      Phmin     err     Pmin     err   Ph0     err      k      err
#    8.46  1.25 -0.734  0.250 19.83  0.36 0.1101 0.0128

```