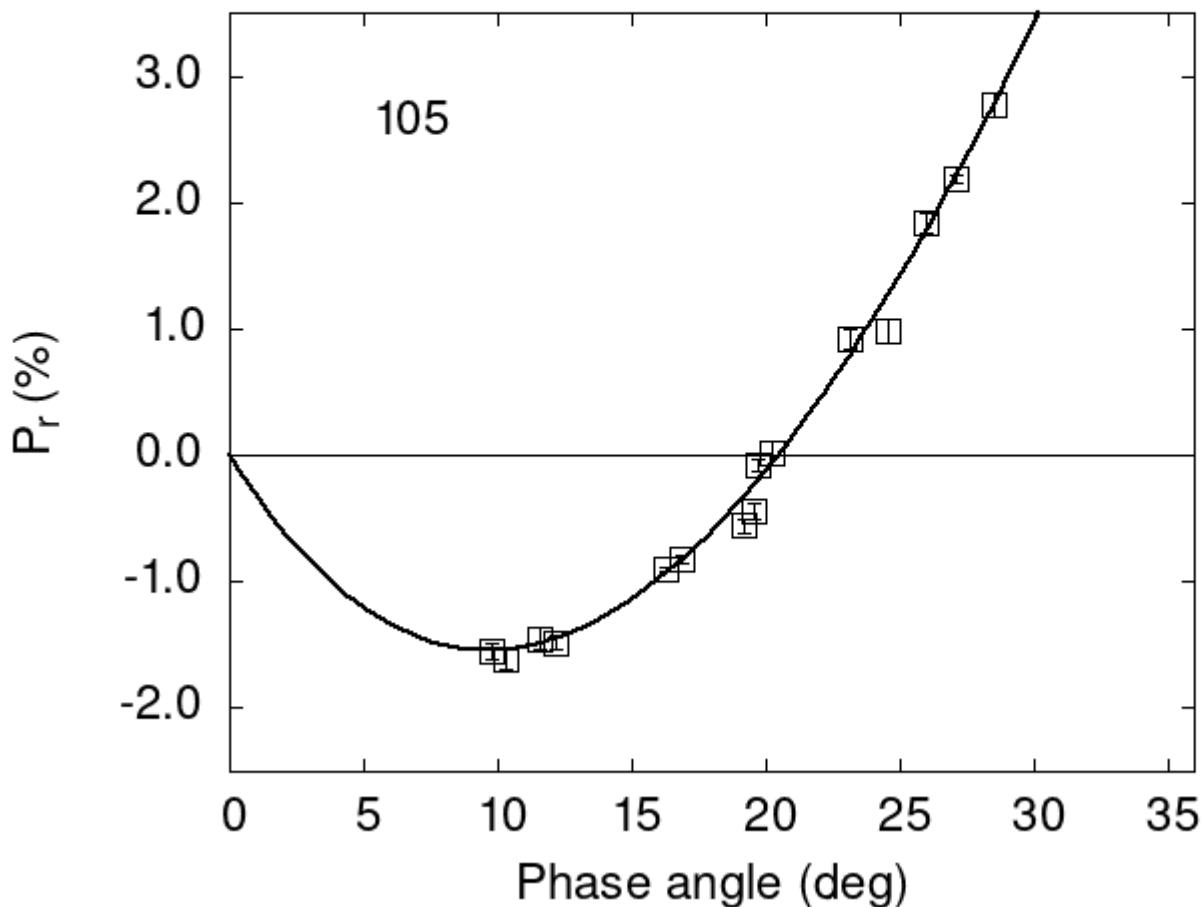


Catalogue of Asteroid Polarization Curves

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.

105	10.34	-1.61	0.09	V	f
105	11.57	-1.45	0.09	V	f
105	20.27	0.02	0.10	V	f
105	23.19	0.92	0.08	V	f
105	25.99	1.84	0.08	V	f
105	28.51	2.77	0.10	V	f

```

105 29.95  3.51 0.10 V f
105 19.20 -0.56 0.05 V a
105 19.60 -0.44 0.06 V a
105 19.70 -0.08 0.05 V a
105 27.10  2.19 0.03 V a
105 16.90 -0.82 0.03 V a
105 16.30 -0.90 0.02 V a
105 12.20 -1.48 0.06 V a
105 24.60  0.98 0.10 V h
105  9.80 -1.55 0.06 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
# 36.5163   0.4663  29.8981   0.2874   0.8841   0.0072
#
#      Phmin     err     Pmin     err    Ph0      err      k      err
#      9.66   0.49 -1.542  0.168 20.47   0.15  0.2683  0.0108

```