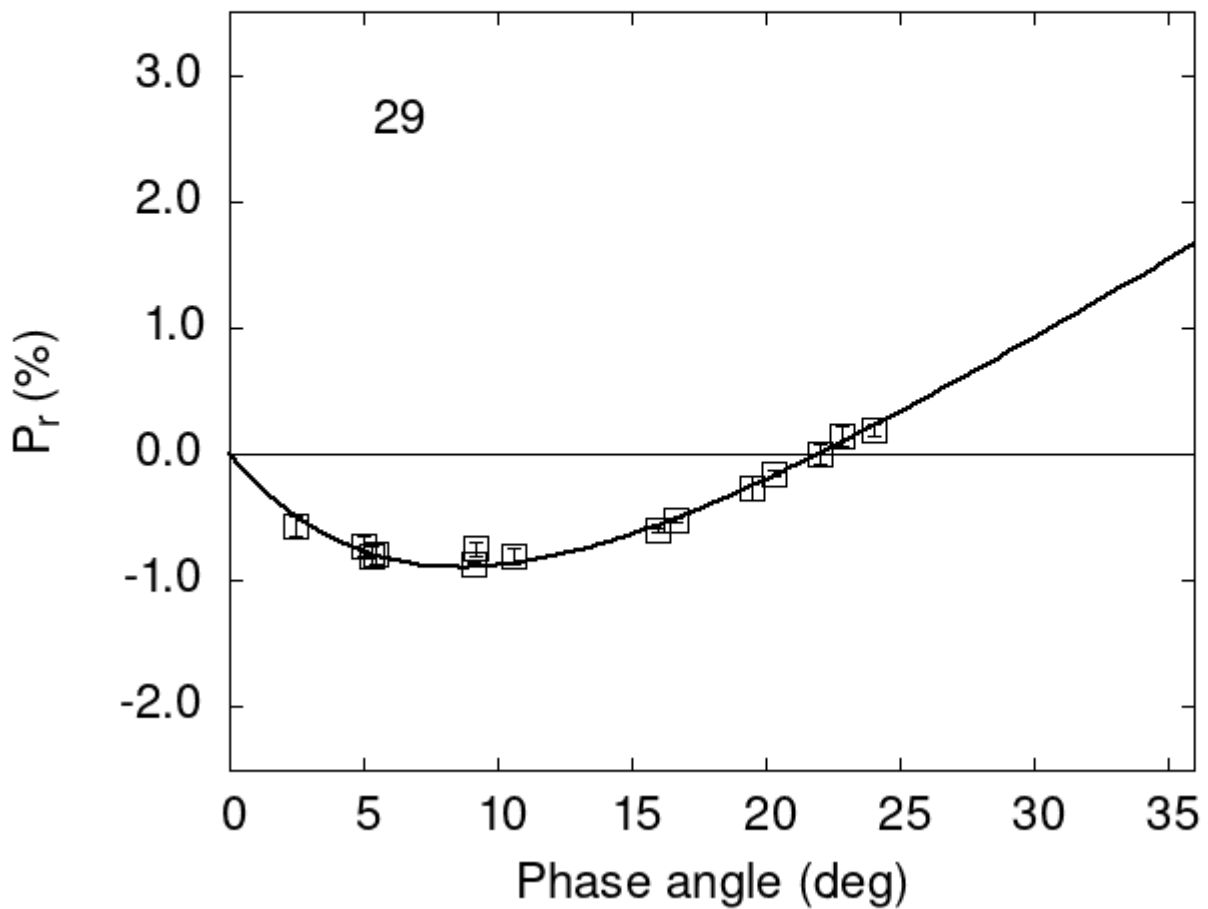


Catalogue of Asteroid Polarization Curves

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.

29	2.44	-0.57	0.08	V	f
29	5.03	-0.72	0.08	V	f
29	5.33	-0.80	0.08	V	f
29	5.47	-0.79	0.08	V	f
29	19.49	-0.27	0.09	V	f
29	22.03	-0.00	0.08	V	f

```

29 22.82  0.15 0.08 V f
29  9.22 -0.75 0.05 V a
29 20.31 -0.15 0.02 G a
29 16.68 -0.52 0.02 G a
29 15.96 -0.60 0.02 G a
29  9.13 -0.87 0.02 G a
29 24.03  0.19 0.05 G a
29 10.60 -0.81 0.06 V a
29  5.33 -0.80 0.01 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
#      3.0527    0.3587    8.0004    0.8350    0.1299    0.0133
#
#      Phmin    err    Pmin    err    Ph0    err    k      err
#      8.62    1.25 -0.894    0.288 22.00    0.38 0.1055 0.0143

```