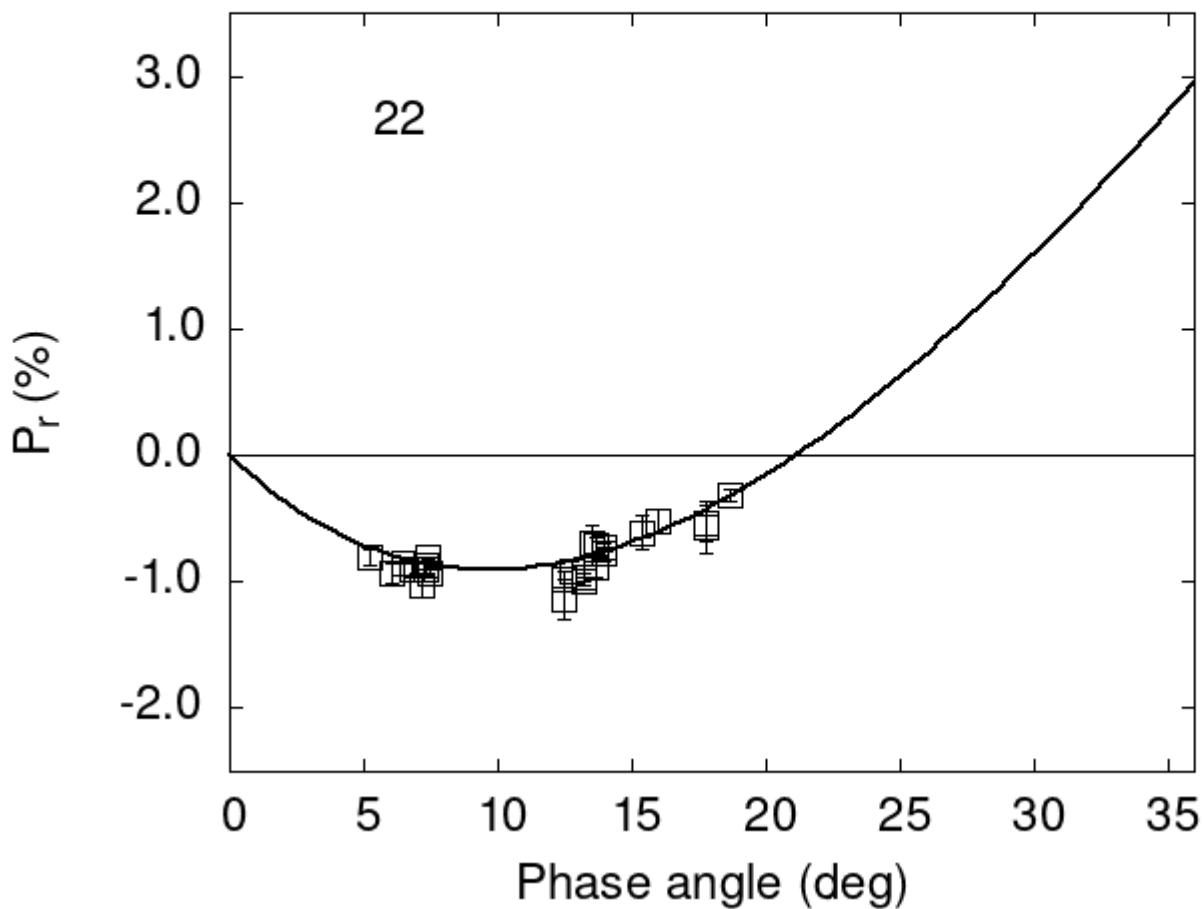


Catalogue of Asteroid Polarization Curves

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.

22	18.70	-0.32	0.05	R	d
22	6.04	-0.93	0.08	V	f
22	7.18	-1.03	0.10	V	f
22	12.79	-0.92	0.09	V	f
22	16.02	-0.52	0.09	V	f
22	7.48	-0.93	0.04	G	a

```

22 17.80 -0.57 0.20 V a
22 17.80 -0.54 0.14 R a
22 13.50 -0.70 0.14 V a
22 13.70 -0.71 0.07 V a
22 13.70 -0.89 0.08 R a
22 14.00 -0.77 0.07 V a
22 6.50 -0.85 0.01 V a
22 7.40 -0.81 0.01 V a
22 12.49 -0.98 0.07 V a
22 12.49 -1.14 0.16 R a
22 13.25 -1.00 0.03 V a
22 13.25 -0.96 0.03 R a
22 14.00 -0.73 0.01 V a
22 6.80 -0.90 0.07 V a
22 5.20 -0.81 0.06 V a
22 7.30 -0.87 0.07 V a
22 7.30 -0.90 0.05 V a
22 15.40 -0.61 0.13 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
# 10.7404  0.1788  20.1081  0.2526  0.3303  0.0048
#
#      Phmin      err      Pmin      err     Ph0      err      k      err
#      9.67   0.46 -0.906  0.092  21.17  0.28  0.1439  0.0057

```