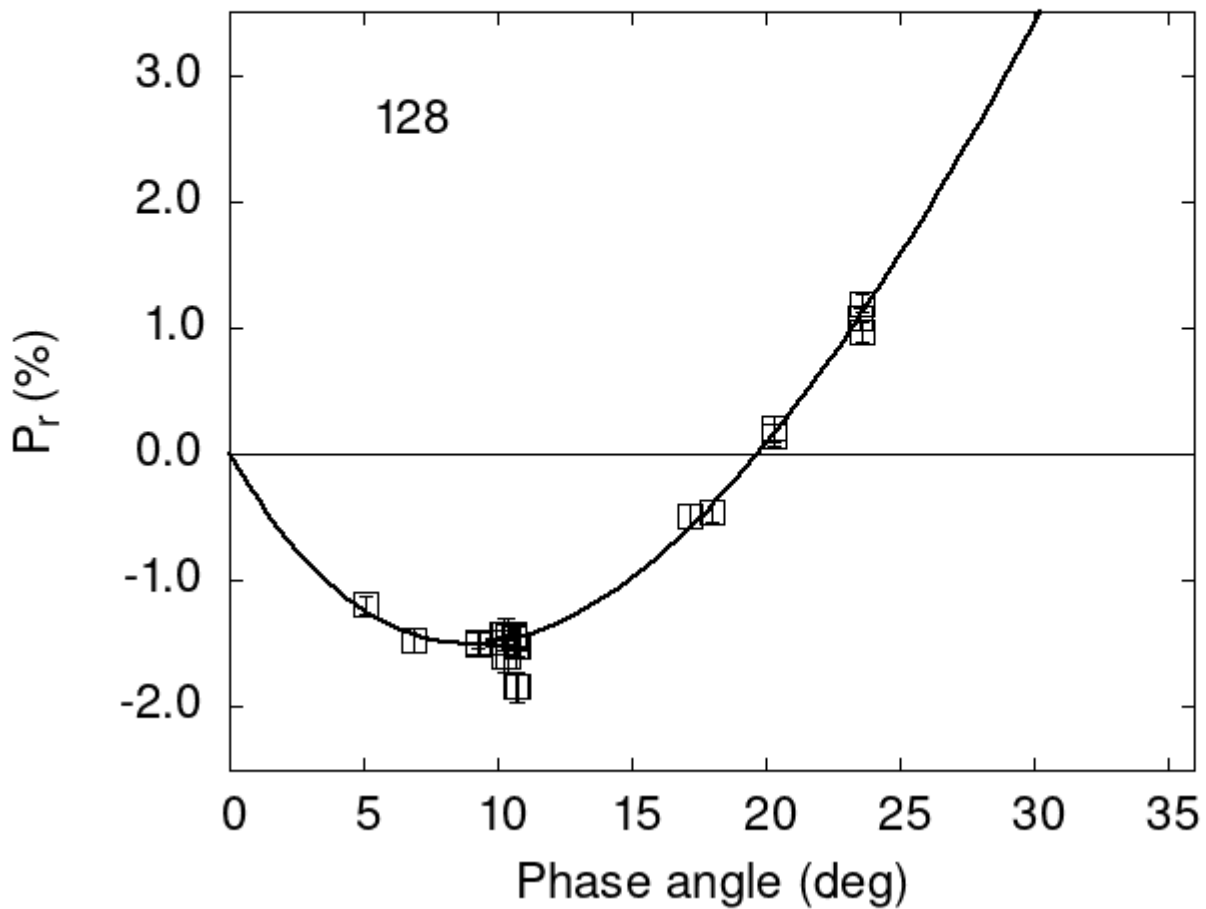


Catalogue of Asteroid Polarization Curves

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.

128	6.90	-1.47	0.10	V	f
128	9.27	-1.49	0.09	R	f
128	17.21	-0.49	0.09	V	f
128	18.01	-0.45	0.08	V	f
128	10.19	-1.48	0.04	V	f
128	10.19	-1.42	0.08	R	f

```

128 10.38 -1.60 0.13 V f
128 10.38 -1.42 0.13 R f
128 10.61 -1.46 0.07 V f
128 10.61 -1.44 0.03 R f
128 10.72 -1.84 0.12 V f
128 10.72 -1.52 0.08 R f
128 20.33 0.15 0.09 V f
128 20.33 0.20 0.10 R f
128 9.77 -1.48 0.03 V f
128 9.77 -1.49 0.03 R f
128 23.50 1.07 0.08 V a
128 23.60 1.19 0.07 V a
128 23.60 0.97 0.08 V a
128 9.27 -1.51 0.02 R a
128 10.67 -1.84 0.12 V b
128 10.67 -1.52 0.08 R b
128 10.26 -1.60 0.13 V b
128 10.26 -1.42 0.13 R b
128 9.77 -1.48 0.03 V b
128 9.77 -1.49 0.03 R b
128 10.19 -1.48 0.04 V b
128 10.19 -1.42 0.08 R b
128 10.61 -1.46 0.08 V b
128 10.61 -1.43 0.03 R b
128 20.33 0.15 0.09 V b
128 20.33 0.20 0.10 R b
128 5.10 -1.19 0.07 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
# 16.9267  0.4381  18.1433  0.3743  0.5689  0.0088
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      8.97  0.58 -1.499  0.216 19.71  0.16 0.2541 0.0120

```