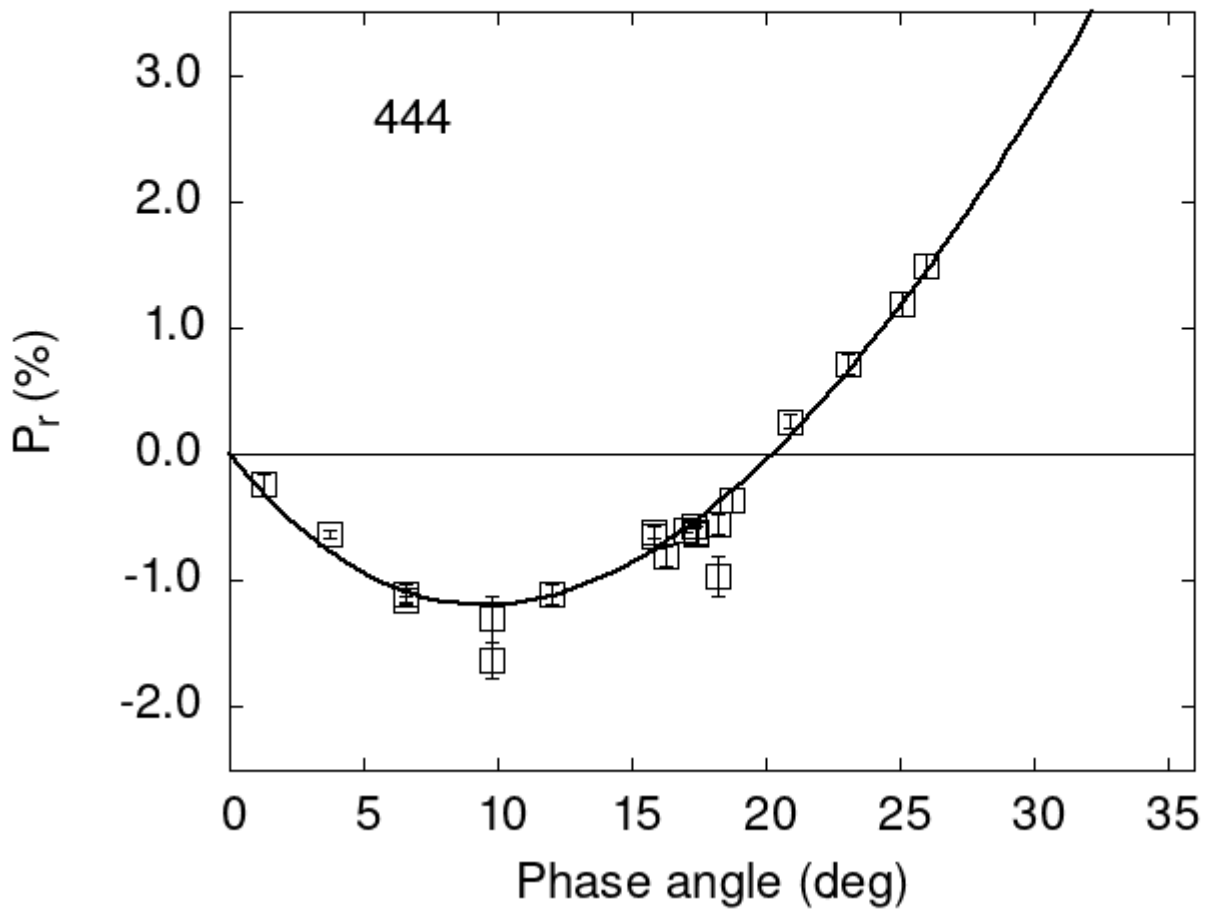


Catalogue of Asteroid Polarization Curves

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.

444	1.29	-0.24	0.09	V	f
444	6.55	-1.11	0.08	V	f
444	12.01	-1.11	0.08	V	f
444	15.80	-0.65	0.09	V	f
444	16.27	-0.81	0.08	V	f
444	17.42	-0.63	0.09	V	f

```

444 18.23 -0.55 0.08 V f
444 18.71 -0.36 0.10 V f
444 23.06 0.72 0.08 V f
444 25.10 1.19 0.09 V f
444 26.02 1.49 0.09 V f
444 3.70 -0.63 0.03 V f
444 9.80 -1.30 0.18 V f
444 9.80 -1.63 0.14 R f
444 18.20 -0.96 0.16 V f
444 20.90 0.26 0.06 V f
444 3.70 -0.63 0.03 V a
444 17.00 -0.60 0.02 V a
444 17.30 -0.57 0.02 V a
444 6.55 -1.15 0.02 V a
444 15.80 -0.62 0.05 V a
444 17.42 -0.62 0.05 V a
444 9.80 -1.30 0.18 V b
444 9.80 -1.63 0.14 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
# 25.6609  0.6494 27.9237  0.5206  0.6535  0.0102
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      9.52  0.90 -1.192  0.241 20.25  0.19 0.2086 0.0153

```