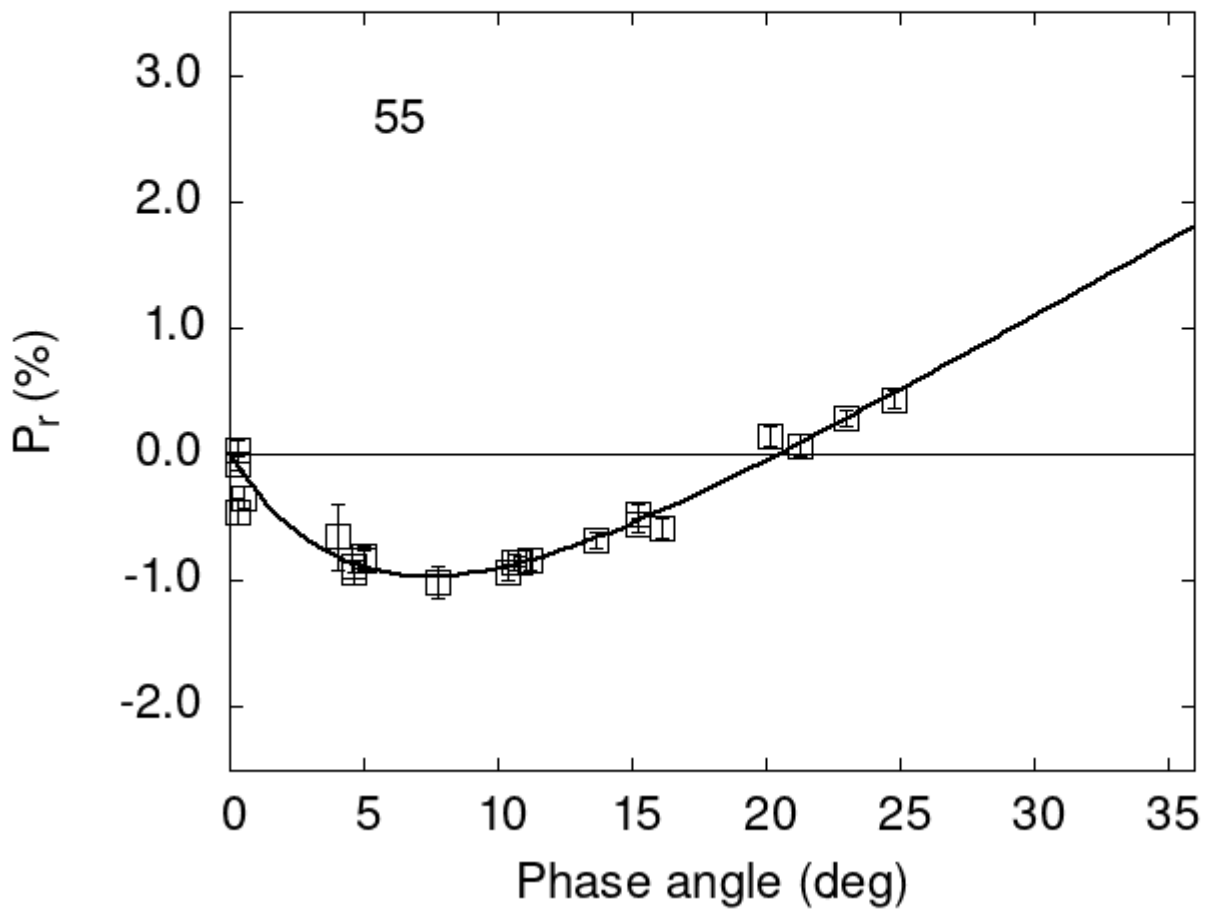


Catalogue of Asteroid Polarization Curves

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.

55	11.20	-0.83	0.09	V	f
55	16.12	-0.59	0.08	V	f
55	20.18	0.14	0.08	V	f
55	21.30	0.07	0.09	V	f
55	7.80	-1.01	0.13	V	a
55	15.20	-0.48	0.09	V	a

```

55 15.20 -0.56 0.06 R a
55 5.00 -0.80 0.08 V a
55 5.00 -0.84 0.08 R a
55 4.00 -0.65 0.26 V a
55 0.30 0.03 0.09 V a
55 0.30 -0.07 0.06 R a
55 0.30 -0.45 0.10 V a
55 0.50 -0.34 0.09 V a
55 4.60 -0.94 0.09 V a
55 4.60 -0.88 0.05 R a
55 10.40 -0.93 0.06 V a
55 10.60 -0.85 0.06 V a
55 10.80 -0.85 0.04 V a
55 13.70 -0.68 0.06 V a
55 24.80 0.43 0.07 V a
55 23.00 0.29 0.06 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
#      2.5193    0.2318    5.5570    0.6595    0.1198    0.0098
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      7.39    0.72 -0.967    0.213 20.49    0.37 0.1085 0.0105

```