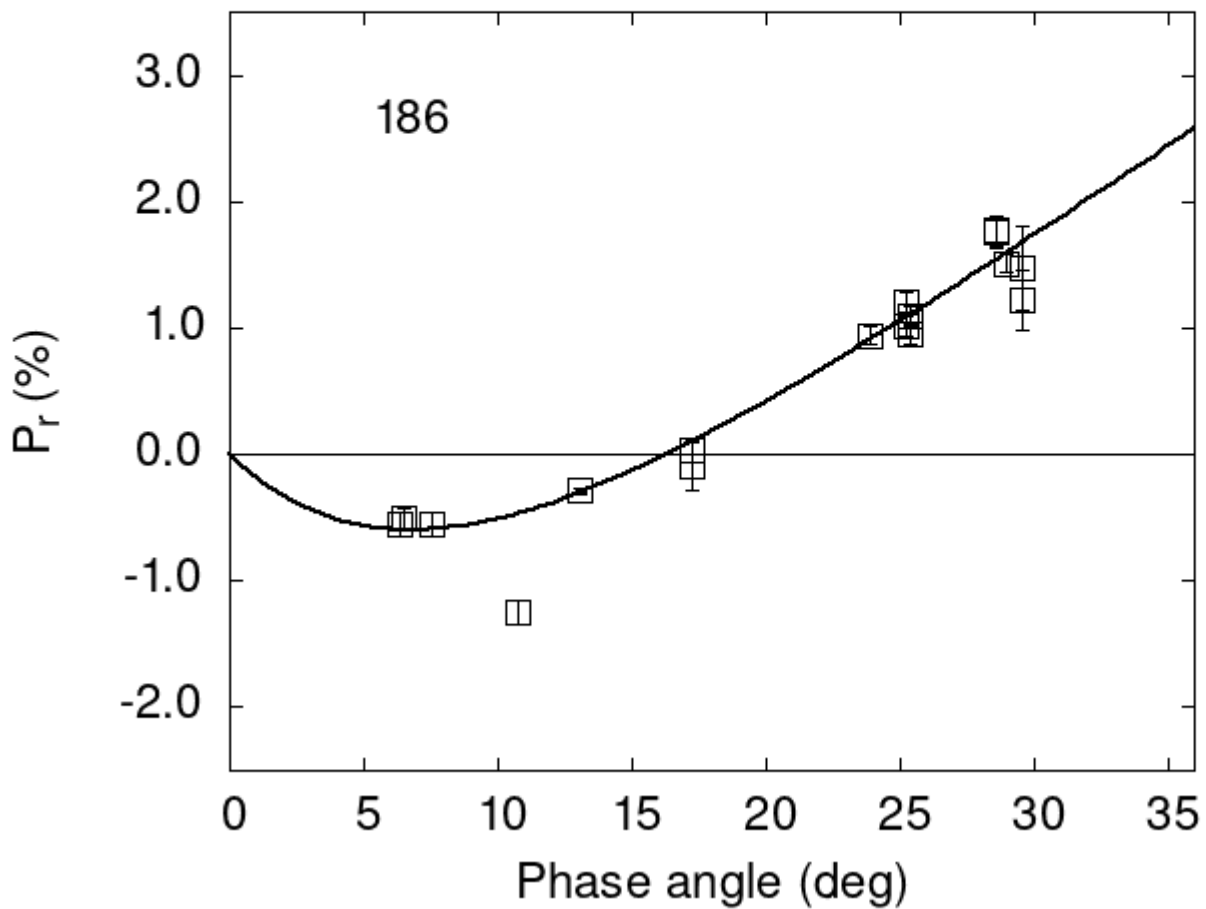


Catalogue of Asteroid Polarization Curves

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.

186	6.35	-0.55	0.09	V	f
186	6.49	-0.51	0.08	V	f
186	7.53	-0.55	0.09	V	f
186	10.74	-1.25	0.09	V	f
186	13.09	-0.29	0.02	V	f
186	13.09	-0.28	0.02	R	f

```

186 25.21  1.20 0.08 V f
186 25.21  1.02 0.08 R f
186 25.43  1.09 0.08 V f
186 25.43  0.95 0.08 R f
186 28.64  1.76 0.13 V f
186 28.64  1.77 0.12 R f
186 29.56  1.47 0.33 V f
186 29.56  1.22 0.23 R f
186 17.27 -0.10 0.19 V a
186 17.27  0.03 0.09 R a
186 23.90  0.94 0.07 V a
186 29.00  1.51 0.07 V a
186 25.21  1.20 0.08 V b
186 25.21  1.02 0.08 R b
186 25.43  1.09 0.08 V b
186 25.43  0.95 0.08 R b
186 28.64  1.76 0.13 V b
186 28.64  1.77 0.12 R b
186 29.59  1.47 0.33 V b
186 29.59  1.22 0.23 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
#      2.6989    0.3339    7.6456    1.2480    0.1458    0.0107
#
#      Phmin    err   Pmin    err   Ph0    err    k      err
#      6.76    1.11 -0.599  0.264 16.31  0.38 0.1040 0.0142

```