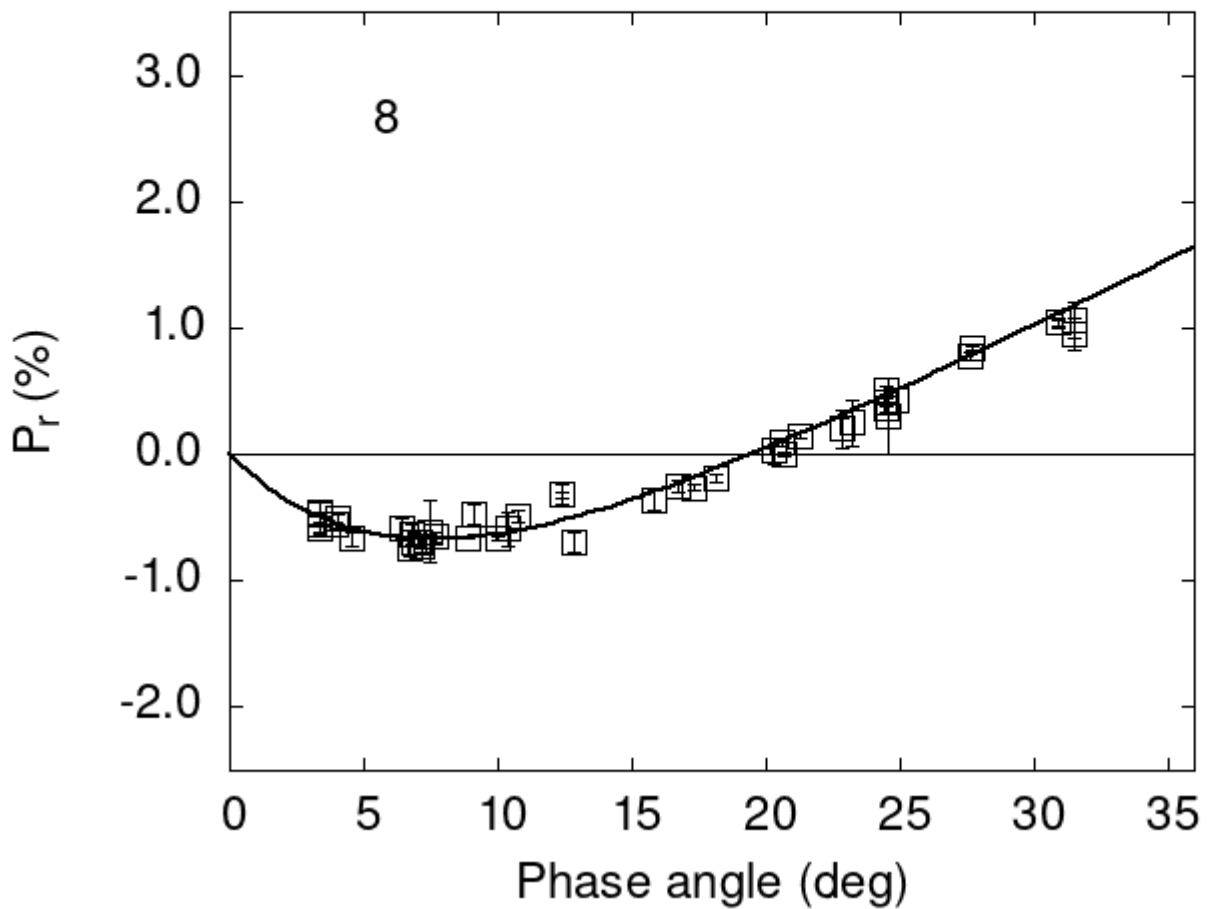


Catalogue of Asteroid Polarization Curves

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.

8	3.33	-0.55	0.08	V	f
8	3.33	-0.46	0.08	R	f
8	6.89	-0.70	0.09	V	f
8	7.49	-0.61	0.24	V	f
8	9.10	-0.48	0.08	V	f
8	12.40	-0.32	0.08	V	f

```

8 12.86 -0.69 0.08 V f
8 15.85 -0.36 0.08 V f
8 22.83 0.20 0.15 V f
8 22.83 0.20 0.08 V f
8 24.88 0.43 0.09 V f
8 4.00 -0.51 0.04 V f
8 10.75 -0.49 0.05 V a
8 16.70 -0.25 0.05 V a
8 4.58 -0.67 0.05 G a
8 3.93 -0.56 0.03 G a
8 6.45 -0.58 0.08 G a
8 10.37 -0.59 0.14 G a
8 20.29 0.03 0.10 G a
8 23.24 0.25 0.18 G a
8 27.68 0.84 0.01 G a
8 27.65 0.78 0.03 G a
8 24.52 0.51 0.03 G a
8 18.12 -0.19 0.03 G a
8 17.32 -0.26 0.02 G a
8 10.01 -0.66 0.02 G a
8 8.92 -0.66 0.01 G a
8 20.61 0.09 0.02 G a
8 24.54 0.30 0.30 R a
8 24.51 0.41 0.03 V a
8 24.51 0.36 0.03 R a
8 31.52 0.95 0.13 V a
8 31.52 1.06 0.14 R a
8 30.91 1.04 0.04 V a
8 30.91 1.04 0.02 R a
8 7.70 -0.65 0.04 V a
8 7.20 -0.72 0.06 V a
8 6.80 -0.63 0.08 V a
8 21.30 0.15 0.02 V a
8 20.70 0.00 0.02 V a
8 7.10 -0.70 0.05 V a
8 6.70 -0.74 0.07 V a
8 3.33 -0.47 0.02 V a
8 3.33 -0.59 0.02 R a
8 12.40 -0.32 0.02 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
# 2.2035  0.0667  6.8238  0.2506  0.1064  0.0023
#
#   Phmin  err  Pmin    err  Ph0    err  k      err
#   7.58  0.26 -0.671  0.056 19.51  0.46 0.0879 0.0027
```