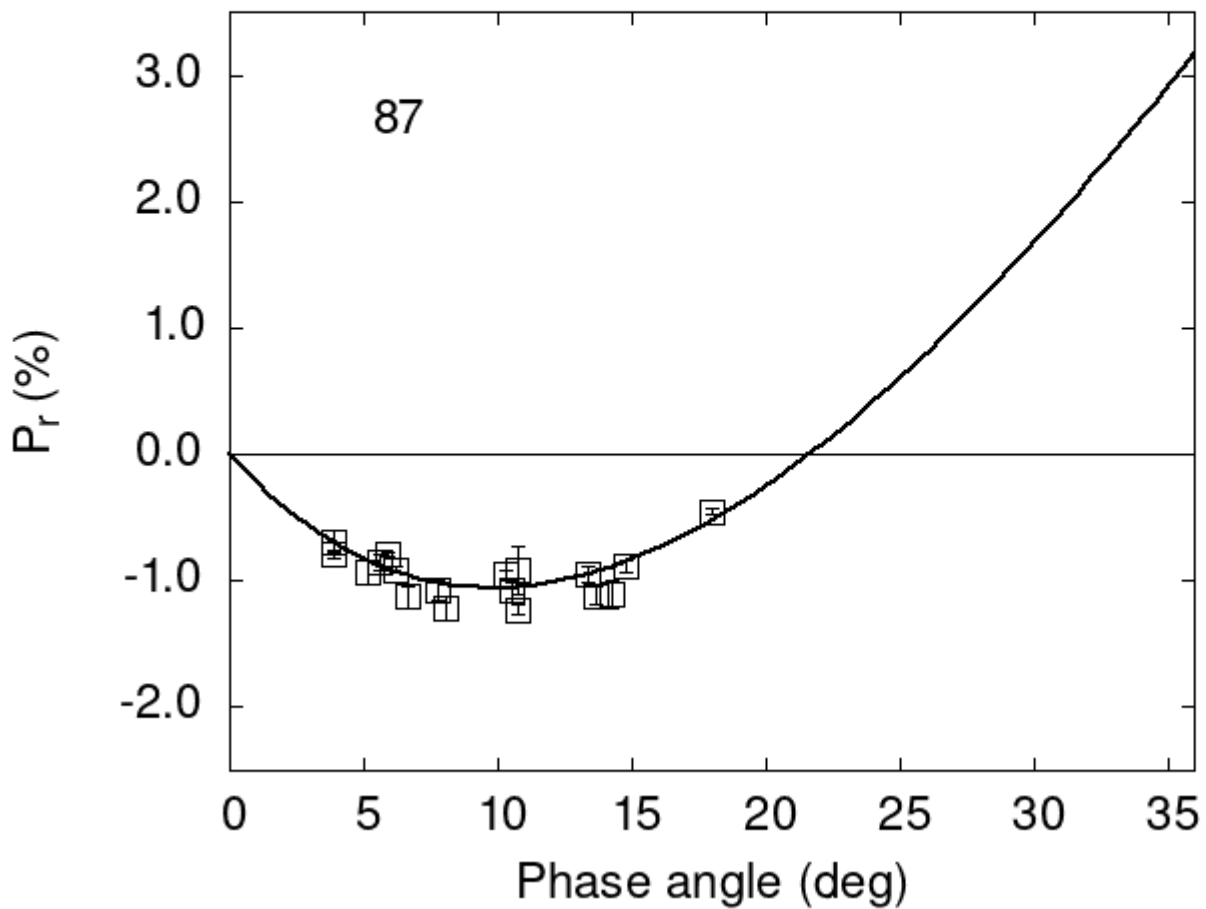


Catalogue of Asteroid Polarization Curves

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.

87	3.92	-0.69	0.09	V	f
87	5.19	-0.93	0.09	V	f
87	6.65	-1.13	0.09	V	f
87	10.55	-1.08	0.09	V	f
87	14.27	-1.10	0.11	V	f
87	10.72	-0.92	0.19	V	f

```

87 10.72 -1.23 0.04 R f
87 14.80 -0.88 0.05 V a
87 5.60 -0.85 0.06 V a
87 13.40 -0.95 0.06 V a
87 10.32 -0.95 0.04 V a
87 7.80 -1.07 0.08 V a
87 13.70 -1.12 0.07 V a
87 18.00 -0.45 0.03 V a
87 6.20 -0.91 0.02 V a
87 5.90 -0.79 0.02 V a
87 8.10 -1.22 0.09 V a
87 3.90 -0.79 0.03 V a
87 10.72 -0.92 0.19 V b
87 10.72 -1.23 0.04 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
# 11.7666  0.4611 19.7520  0.5517  0.3618  0.0108
#
#      Phmin  err  Pmin  err  Ph0  err  k      err
#      9.85  1.01 -1.057 0.232 21.65 0.25 0.1627 0.0133

```