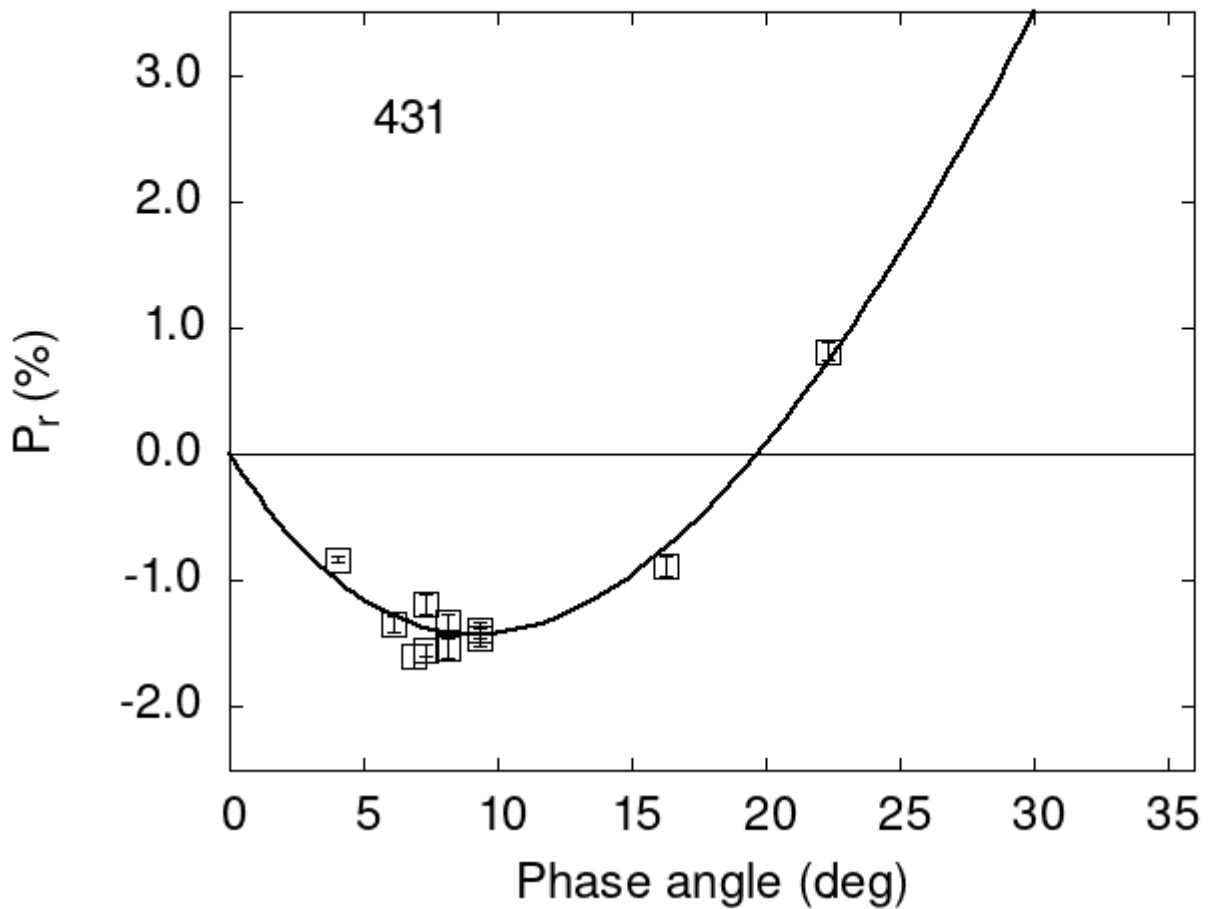


Catalogue of Asteroid Polarization Curves

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.

431	6.84	-1.60	0.09	V	f
431	22.30	0.81	0.07	V	a
431	16.30	-0.88	0.08	V	a
431	9.37	-1.45	0.07	V	a
431	9.37	-1.39	0.06	R	a
431	8.12	-1.53	0.08	V	a

431 8.12 -1.33 0.06 R a
 431 7.29 -1.19 0.08 V a
 431 7.29 -1.55 0.04 R a
 431 6.10 -1.34 0.06 V a
 431 4.00 -0.83 0.03 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
# 24.1894  0.9305  23.5047  0.5989  0.6968  0.0171
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      9.17  1.13 -1.425  0.376 19.70 0.16 0.2516 0.0243
```