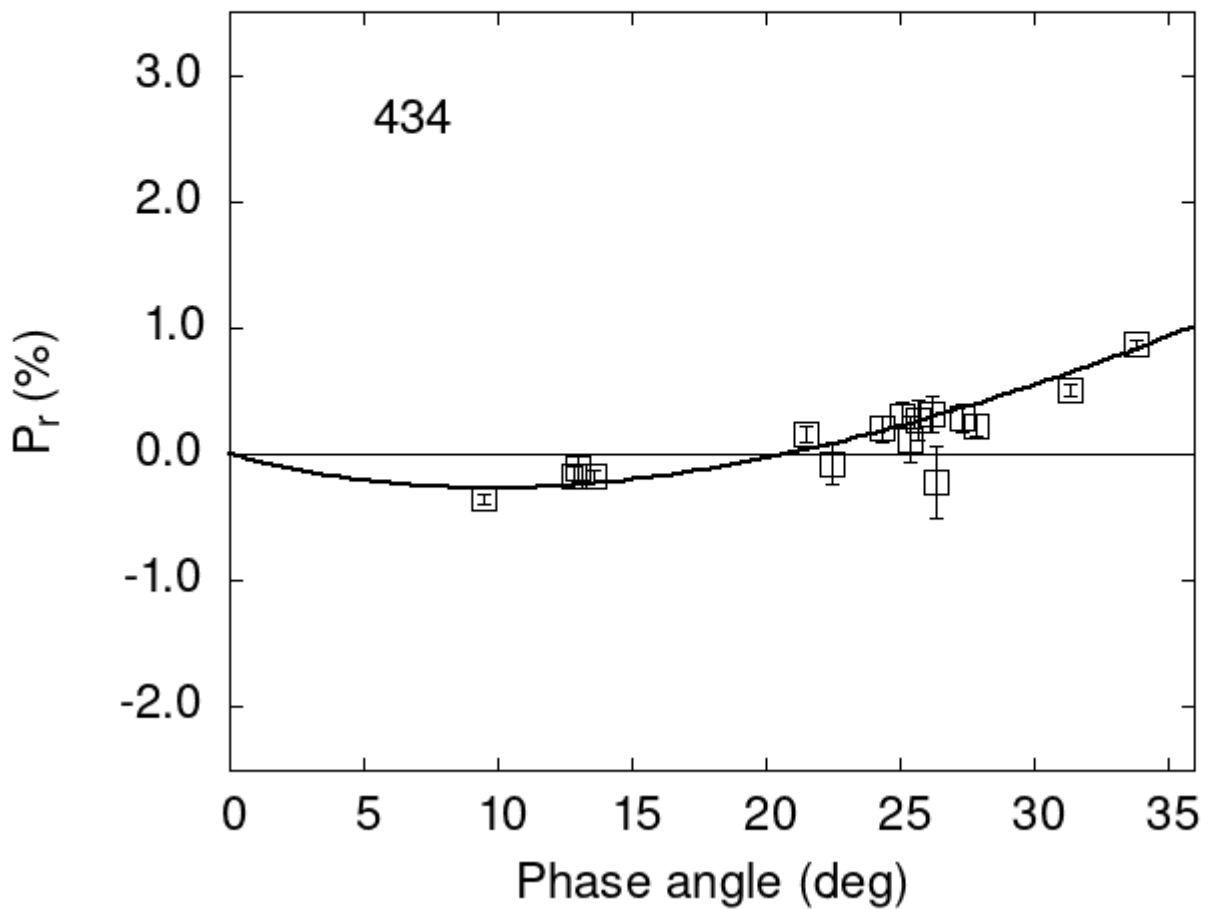


Catalogue of Asteroid Polarization Curves

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.

434	12.83	-0.18	0.09	V	f
434	12.99	-0.11	0.11	V	f
434	24.38	0.20	0.10	V	f
434	25.12	0.31	0.10	V	f
434	25.42	0.12	0.18	V	f
434	26.21	0.32	0.14	V	f

```

434 26.35 -0.22 0.28 V f
434 27.36 0.28 0.11 V f
434 27.89 0.23 0.09 V f
434 13.60 -0.17 0.05 V a
434 33.80 0.87 0.03 V a
434 9.50 -0.35 0.04 V a
434 25.70 0.27 0.16 V a
434 31.40 0.51 0.05 V a
434 21.50 0.16 0.06 V a
434 22.50 -0.07 0.16 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
#      5.0882    0.1867    26.5848    0.9228    0.1328    0.0041
#
#      Phmin    err    Pmin    err    Ph0    err    k      err
#      9.72    1.40 -0.268  0.083  20.79  0.89  0.0452  0.0052

```