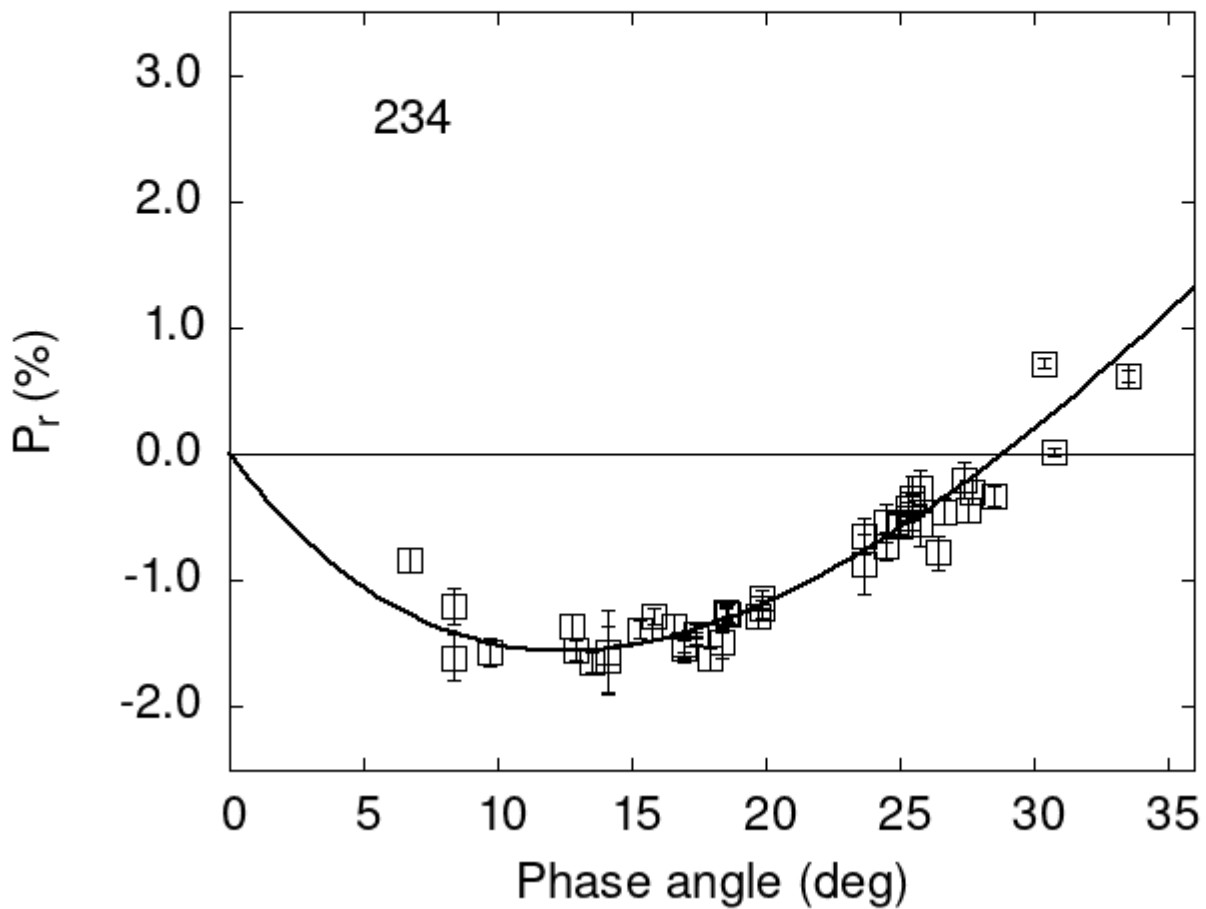


Catalogue of Asteroid Polarization Curves

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.

234	6.74	-0.84	0.09	V	f
234	9.73	-1.56	0.11	V	f
234	12.76	-1.36	0.09	V	f
234	12.93	-1.55	0.08	V	f
234	13.52	-1.65	0.08	V	f
234	16.58	-1.36	0.09	V	f

234 16.95 -1.54 0.11 V f
234 17.38 -1.43 0.08 V f
234 17.95 -1.62 0.09 V f
234 18.34 -1.49 0.12 V f
234 19.71 -1.28 0.09 V f
234 26.45 -0.78 0.14 V f
234 26.63 -0.45 0.10 V f
234 27.42 -0.20 0.14 V f
234 27.56 -0.44 0.09 V f
234 27.69 -0.30 0.09 V f
234 28.51 -0.33 0.08 V f
234 33.54 0.62 0.09 V f
234 14.14 -1.56 0.33 V f
234 14.14 -1.63 0.27 R f
234 18.49 -1.25 0.07 V f
234 18.49 -1.25 0.04 R f
234 19.89 -1.22 0.07 V f
234 19.89 -1.14 0.07 R f
234 23.68 -0.87 0.24 V f
234 23.68 -0.65 0.14 R f
234 30.80 0.02 0.03 V f
234 30.40 0.72 0.04 V a
234 30.40 0.72 0.04 V a
234 25.80 -0.56 0.17 V a
234 25.80 -0.27 0.14 R a
234 25.50 -0.34 0.16 V a
234 25.50 -0.40 0.08 R a
234 25.30 -0.51 0.13 V a
234 25.30 -0.43 0.10 R a
234 25.00 -0.57 0.10 V a
234 25.00 -0.55 0.08 R a
234 15.83 -1.28 0.07 V a
234 18.57 -1.26 0.07 V a
234 24.50 -0.54 0.15 V a
234 24.50 -0.73 0.11 R a
234 8.40 -1.61 0.18 V a
234 8.40 -1.20 0.14 R a
234 15.30 -1.39 0.07 V a
234 16.95 -1.51 0.05 V a
234 16.95 -1.54 0.07 V a
234 17.38 -1.42 0.02 V a
234 17.38 -1.43 0.03 V a
234 33.54 0.62 0.05 V a
234 18.34 -1.49 0.09 V a
234 19.89 -1.22 0.07 V b
234 19.89 -1.14 0.07 R b
234 18.49 -1.25 0.07 V b
234 18.49 -1.25 0.05 R b
234 14.14 -1.56 0.33 V b
234 14.14 -1.63 0.27 R b

234 23.68 -0.87 0.24 V b
 234 23.68 -0.65 0.14 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
#      9.7558      0.3734      17.5774      0.5619      0.2726      0.0070
#
#      Phmin      err      Pmin      err      Ph0      err      k      err
#      12.50      0.83      -1.558      0.236      28.86      0.24      0.1651      0.0084
```