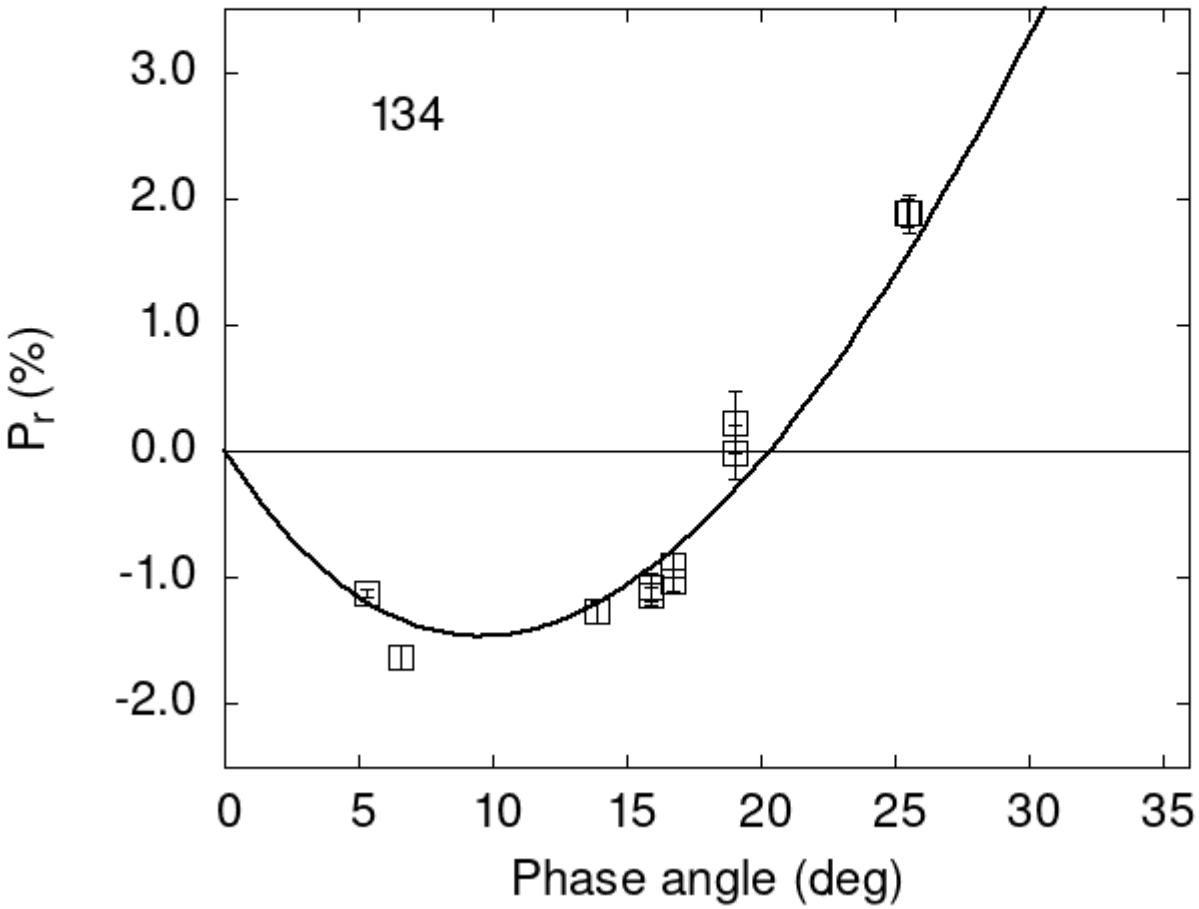
Catalogue of Asteroid Polarization Curves

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.

```
134  6.56 -1.63 0.10 V f
134 13.89 -1.27 0.09 V f
134 25.49  1.89 0.11 V f
134 25.53  1.88 0.15 V f
134 16.71 -1.02 0.08 V f
134 16.71 -0.90 0.10 R f
```

```
134 19.01 -0.01 0.21 V f
134 19.01  0.23 0.24 R f
134  5.30 -1.12 0.03 V f
134 15.88 -1.14 0.07 V a
134 15.88 -1.07 0.11 R a
134  5.30 -1.12 0.03 V a
134 19.01 -0.01 0.21 V b
134 19.01  0.23 0.25 R b
134 16.71 -1.02 0.08 V b
134 16.71 -0.90 0.10 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
#   29.3824   1.0336  26.8671   0.6156   0.7671   0.0179
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      9.53  1.20 -1.464  0.390 20.32  0.16 0.2539 0.0256
```