Catalogue of Asteroid Polarization Curves
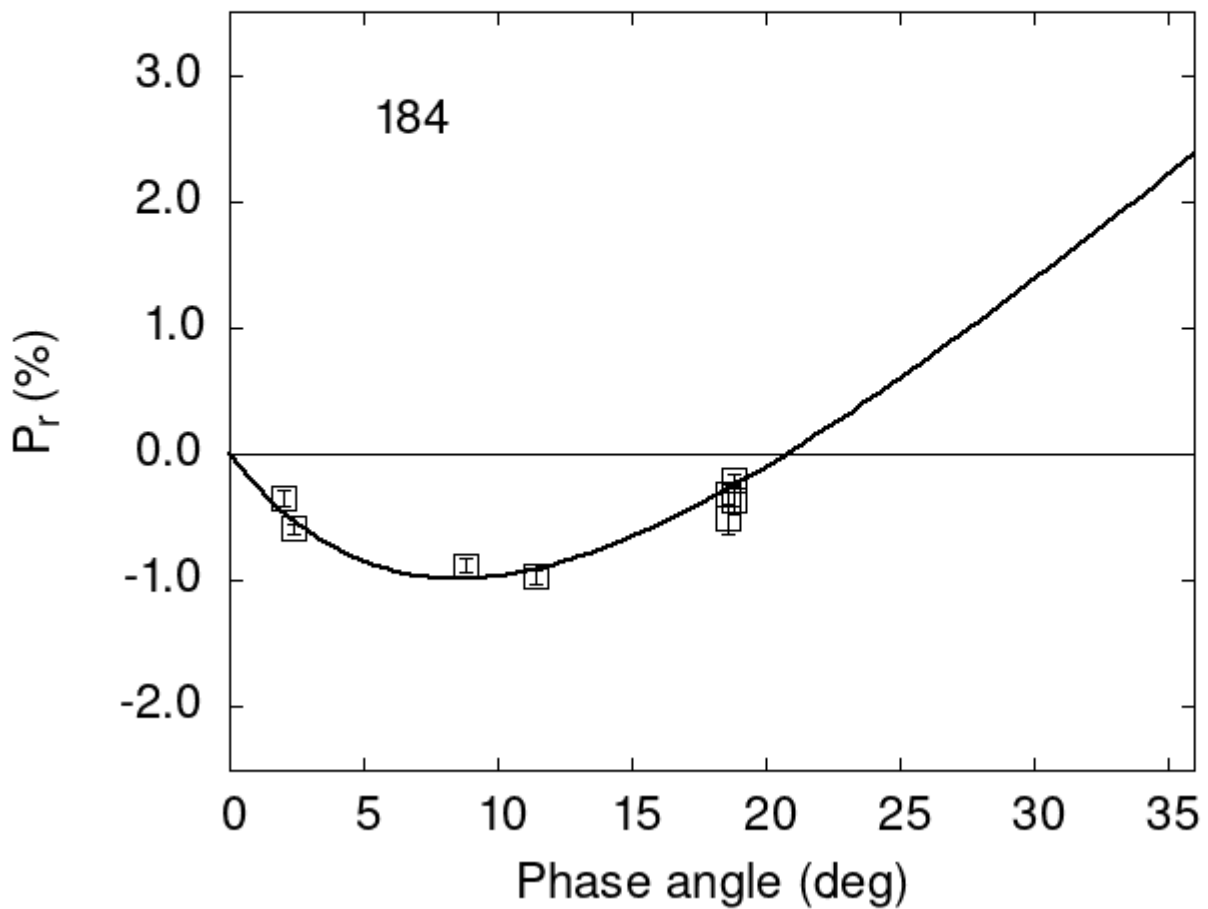
Gil-Hutton (2023)

Polarimetric data:

The columns list the object number, the phase angle (degrees), P_r (%), its error, the filter used, and the reference code.

```
184 18.80 -0.36 0.11 V d
184 18.80 -0.20 0.04 R d
184 18.60 -0.51 0.12 V d
184 18.60 -0.32 0.08 R d
184  8.80 -0.88 0.06 V a
184 11.40 -0.97 0.05 V a
```

```
184  2.40 -0.59 0.04 V a
184  2.00 -0.35 0.06 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
#    4.1557    0.4097   9.1923    0.7437   0.1790    0.0154
#
#    Phmin    err   Pmin    err   Ph0    err    k      err
#      8.52  1.20 -0.986  0.306 20.80  0.30 0.1319 0.0168
```