Catalogue of Asteroid Polarization Curves
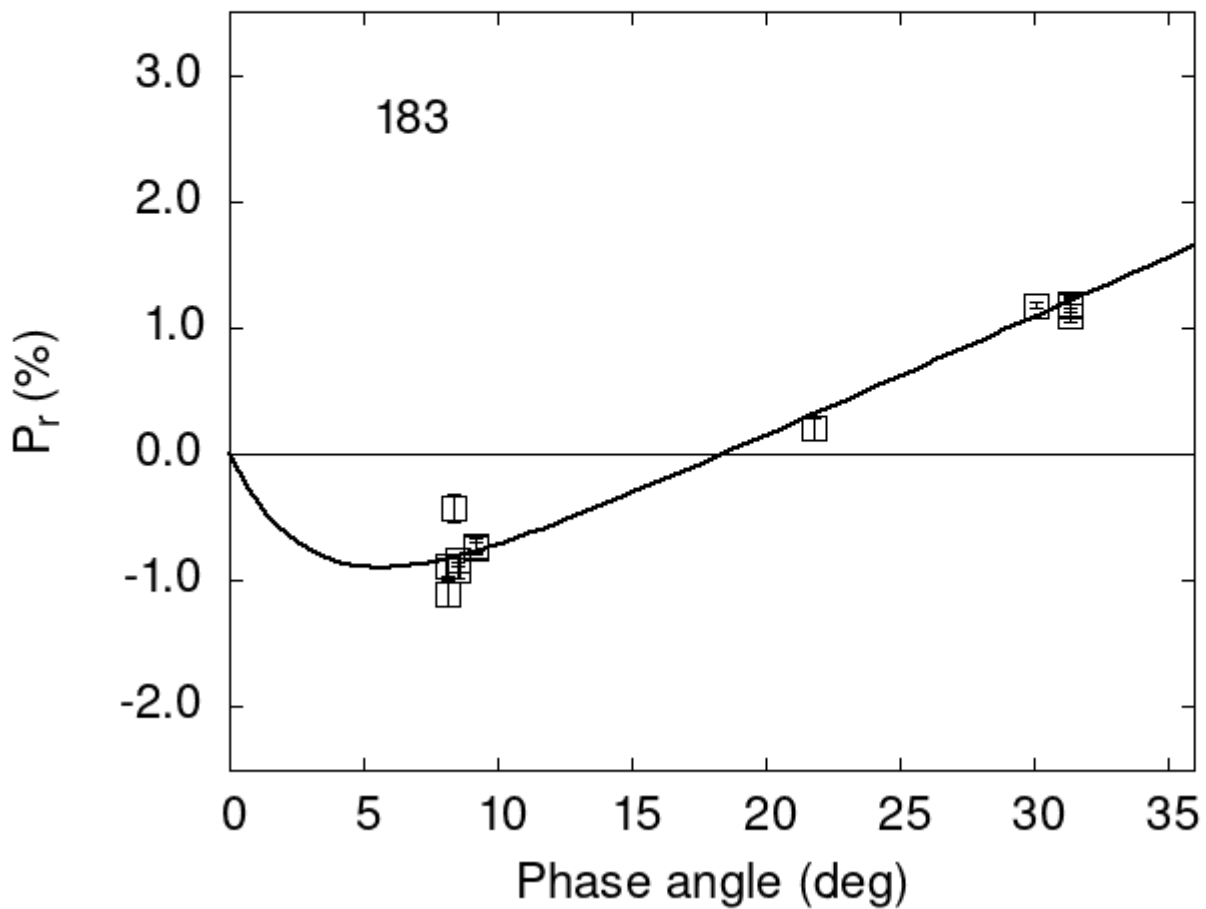
Gil-Hutton (2023)

Polarimetric data:

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

```
183   8.39 -0.43 0.11 V f
183 21.79  0.20 0.09 V f
183 31.37  1.19 0.06 V f
183 31.37  1.10 0.05 R f
183 30.10  1.18 0.03 V f
183  8.16 -0.88 0.09 V a
```

```
183   8.16 -1.10 0.10 R a
183   8.49 -0.92 0.06 V a
183   8.49 -0.84 0.05 R a
183   9.19 -0.74 0.05 V a
183   9.19 -0.72 0.05 R a
183 31.37  1.18 0.06 V b
183 31.37  1.10 0.05 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
#    1.7400    0.1506    3.3000    0.8807    0.0940    0.0048
#
#    Phmin    err   Pmin     err  Ph0     err    k       err
#     5.69   0.72 -0.895   0.191 18.44   0.43 0.0920 0.0054
```