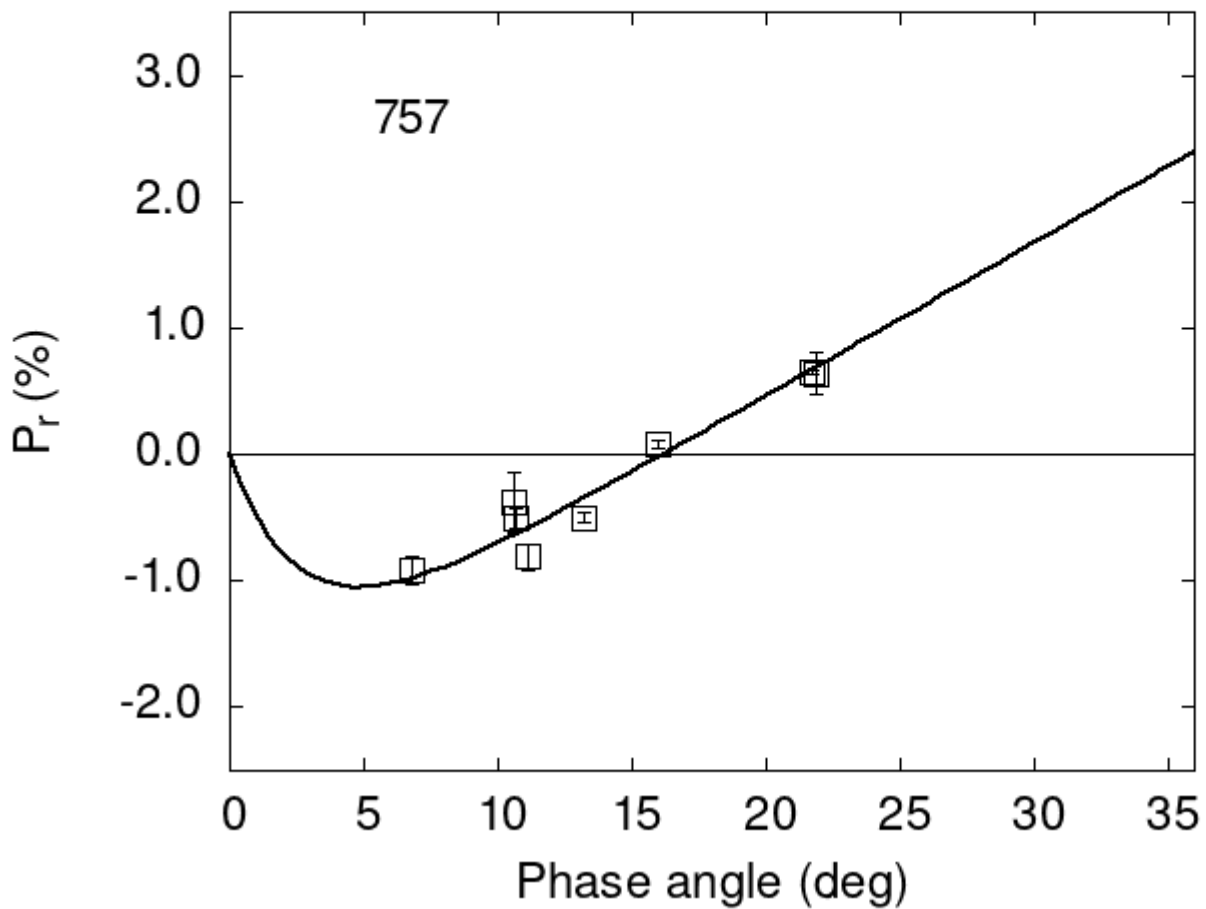# Catalogue of Asteroid Polarization Curves

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.

```
757 13.20 -0.50 0.04 V a
757 10.70 -0.50 0.08 V a
757 11.10 -0.81 0.10 V a
757 10.60 -0.38 0.24 V a
757  6.80 -0.91 0.11 V a
757 21.90  0.64 0.17 V a
```

```
757 21.70   0.65 0.02 V a
757 16.00   0.08 0.03 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
#    1.9640   0.1070   2.6938    0.8886    0.1210    0.0053
#
#     Phmin    err    Pmin     err   Ph0     err    k       err
#      4.84   0.73  -1.053   0.214 16.18   0.34 0.1192 0.0061
```