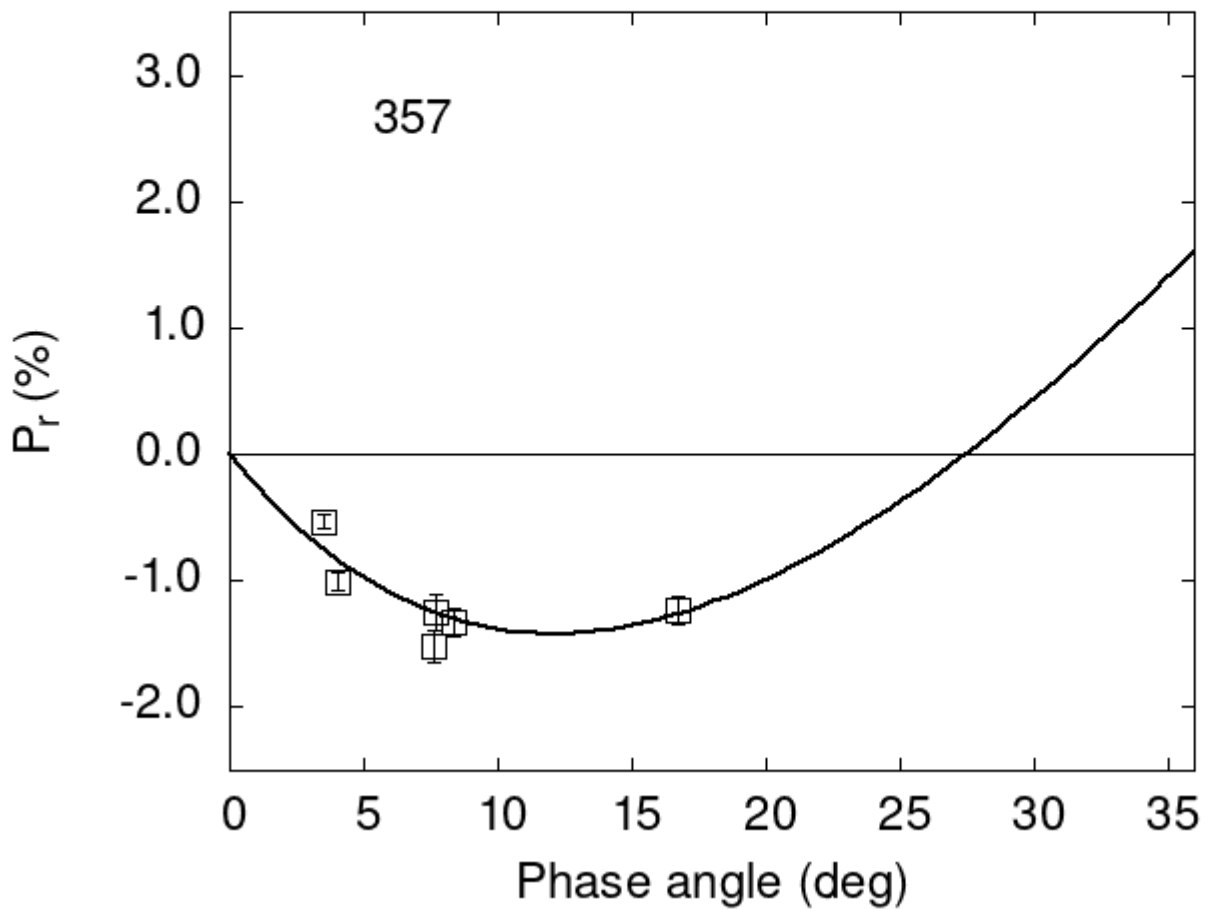# Catalogue of Asteroid Polarization Curves

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.

```
357   8.40 -1.33 0.11 V a
357   4.00 -1.01 0.07 V a
357   7.60 -1.52 0.13 V a
357   7.70 -1.25 0.14 V a
357  16.70 -1.23 0.11 V a
357   3.50 -0.53 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
#    10.4018   0.5389   18.7918   1.4081    0.2908    0.0164
#
#     Phmin    err    Pmin     err   Ph0     err     k       err
#     12.09   1.53  -1.419   0.418  27.47   0.25  0.1625  0.0183
```