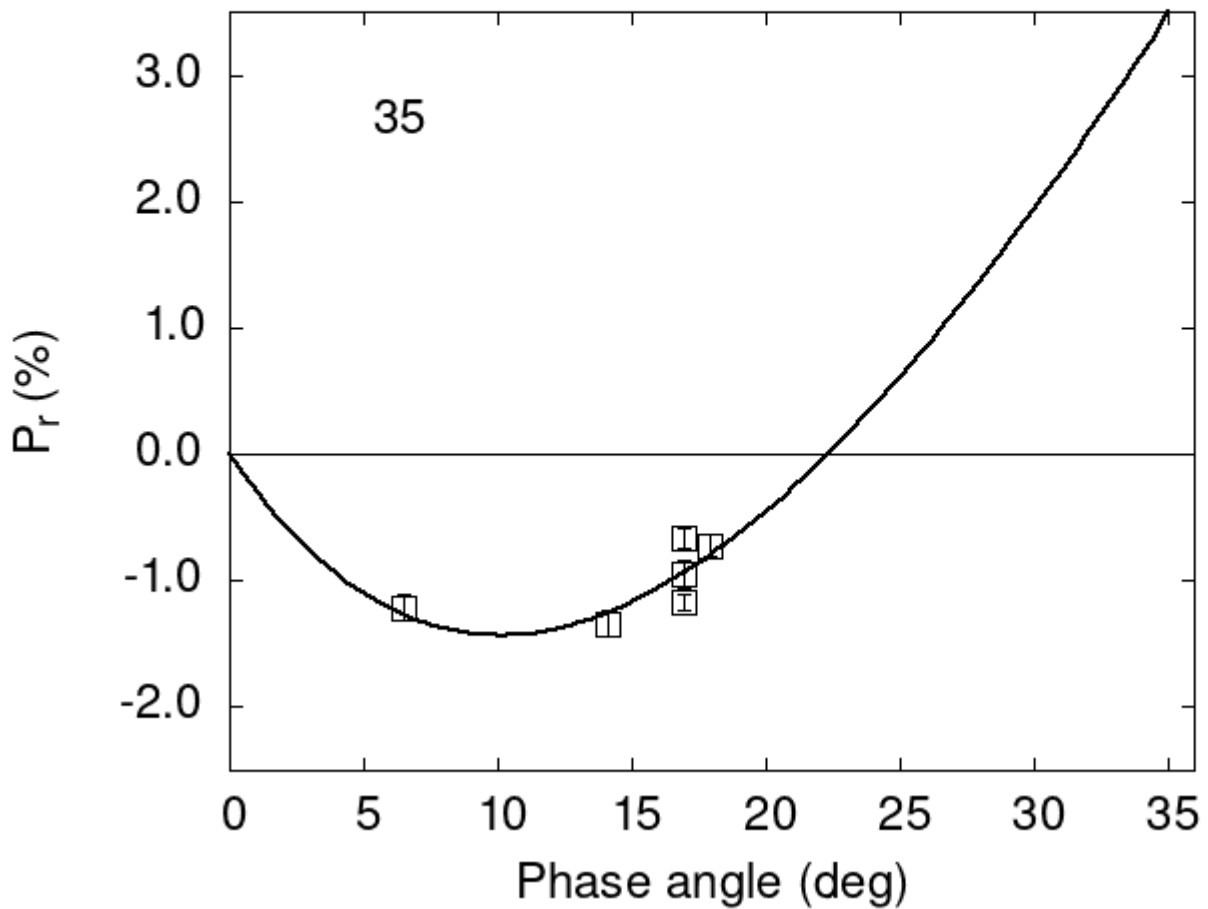# Catalogue of Asteroid Polarization Curves

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.

```
35   6.48 -1.21 0.10 V f
35  14.13 -1.34 0.10 V f
35  16.96 -0.95 0.11 V f
35  16.96 -0.67 0.08 R f
35  17.93 -0.72 0.09 V f
35  16.96 -1.17 0.07 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
#    14.1886    0.6181   18.8516    1.2736    0.4409    0.0219
#
#     Phmin    err    Pmin     err   Ph0    err     k       err
#     10.08   1.38  -1.432   0.452 22.33   0.19 0.2107  0.0243
```