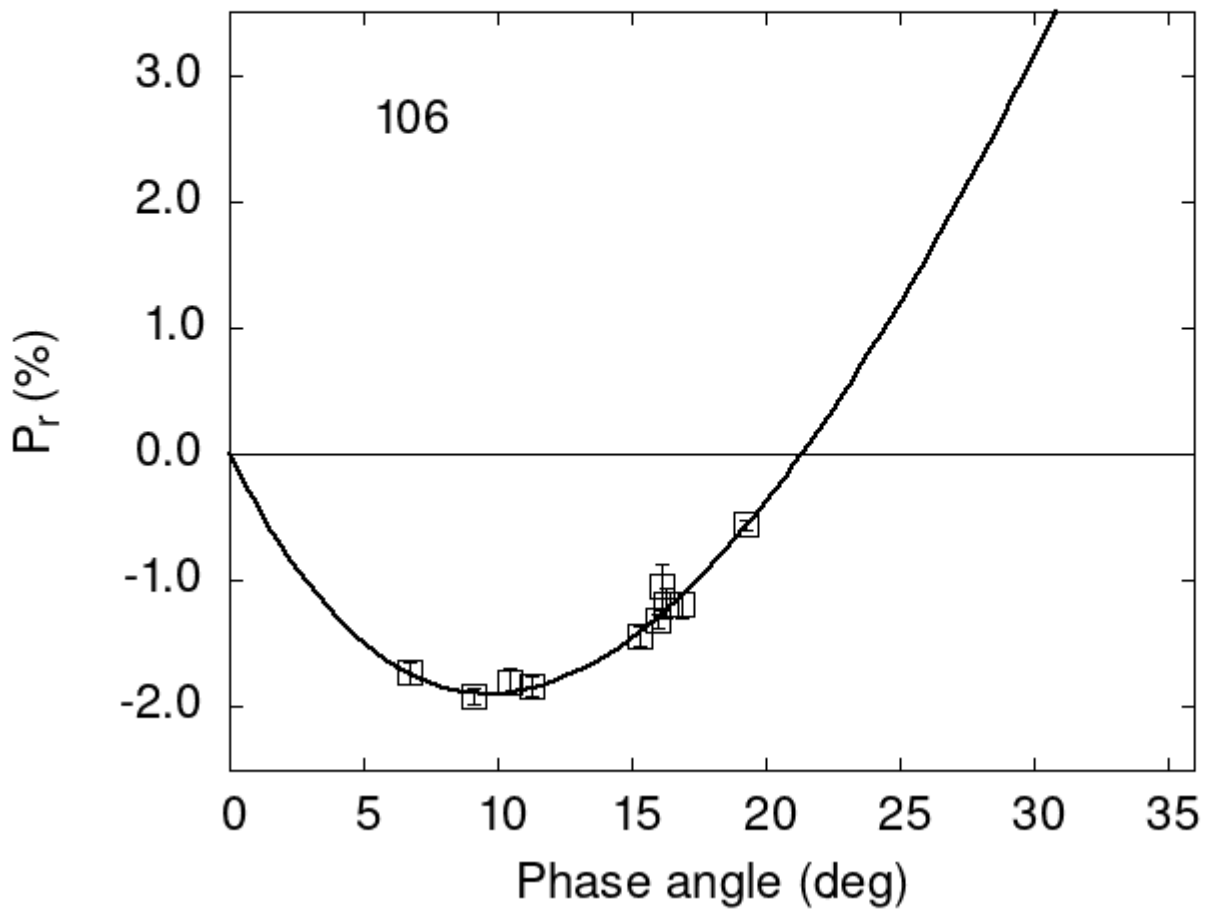# Catalogue of Asteroid Polarization Curves

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.

```
106   6.71 -1.73 0.09 V f
106  10.42 -1.80 0.10 V f
106  15.29 -1.44 0.08 V f
106  16.30 -1.18 0.12 V f
106  16.89 -1.19 0.10 V f
106  16.00 -1.32 0.05 V f
```

```
106 16.10 -1.05 0.18 V f
106 11.30 -1.84 0.08 V a
106 19.30 -0.56 0.04 V a
106  9.10 -1.91 0.06 V h
```

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
#   20.1117    0.7713   18.8823    0.5846   0.6376    0.0181
#
#     Phmin    err    Pmin     err   Ph0     err    k       err
#      9.69   0.95  -1.895   0.404 21.36   0.14 0.2940  0.0225
```