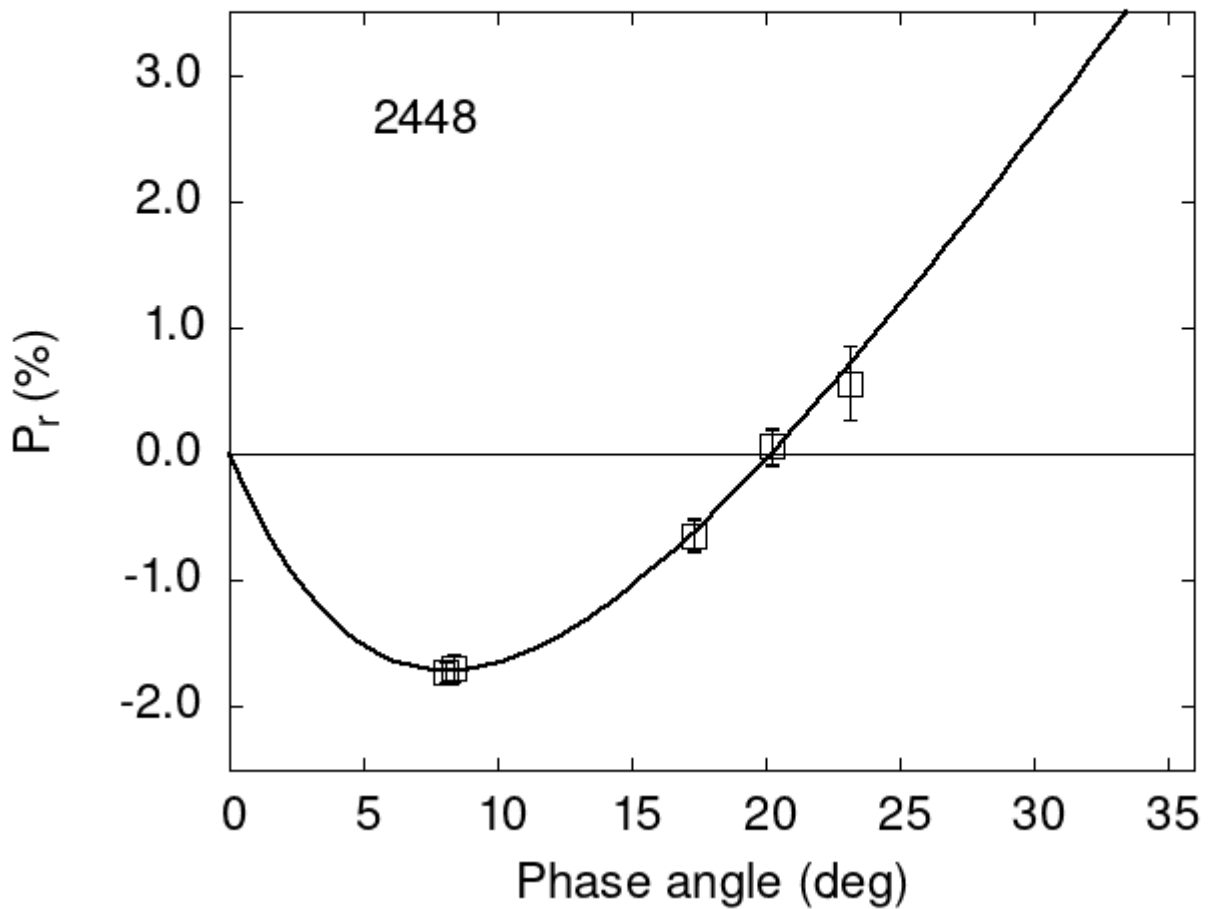# Catalogue of Asteroid Polarization Curves

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.

```
2448   8.37 -1.69 0.11 V f
2448 17.35 -0.64 0.14 V f
2448 20.27  0.06 0.15 V f
2448 23.18  0.56 0.29 V f
2448   8.10 -1.72 0.08 V a
2448 20.27  0.06 0.13 V a
```

```
   2448 17.35 -0.64 0.12 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
#    6.5364    0.5623    8.1683    0.7376    0.2963    0.0204
#
#     Phmin    err    Pmin     err  Ph0     err    k      err
#      8.12   0.90  -1.712   0.447 20.19   0.17 0.2288 0.0231
```