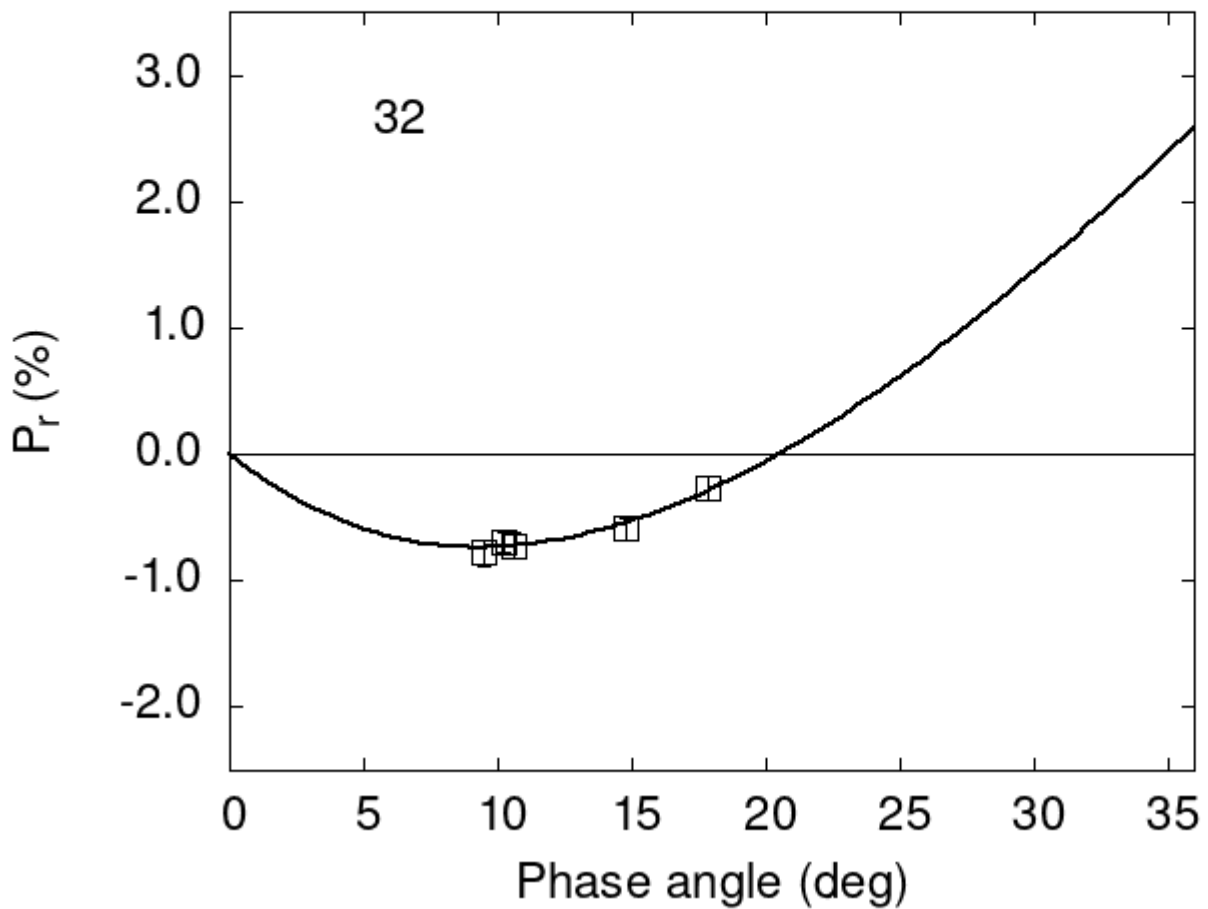# Catalogue of Asteroid Polarization Curves

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.

```
32   9.49 -0.78 0.10 V f
32 10.62 -0.72 0.10 V f
32 10.62 -0.72 0.10 R f
32 14.77 -0.59 0.09 V f
32 17.84 -0.27 0.09 V f
32 10.20 -0.69 0.08 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
#    8.2076    0.3736   18.7291    1.3741    0.2663    0.0157
#
#     Phmin    err     Pmin     err  Ph0      err    k        err
#      9.33   1.56  -0.735   0.276 20.50   0.33 0.1197 0.0171
```