Catalogue of Asteroid Polarization Curves
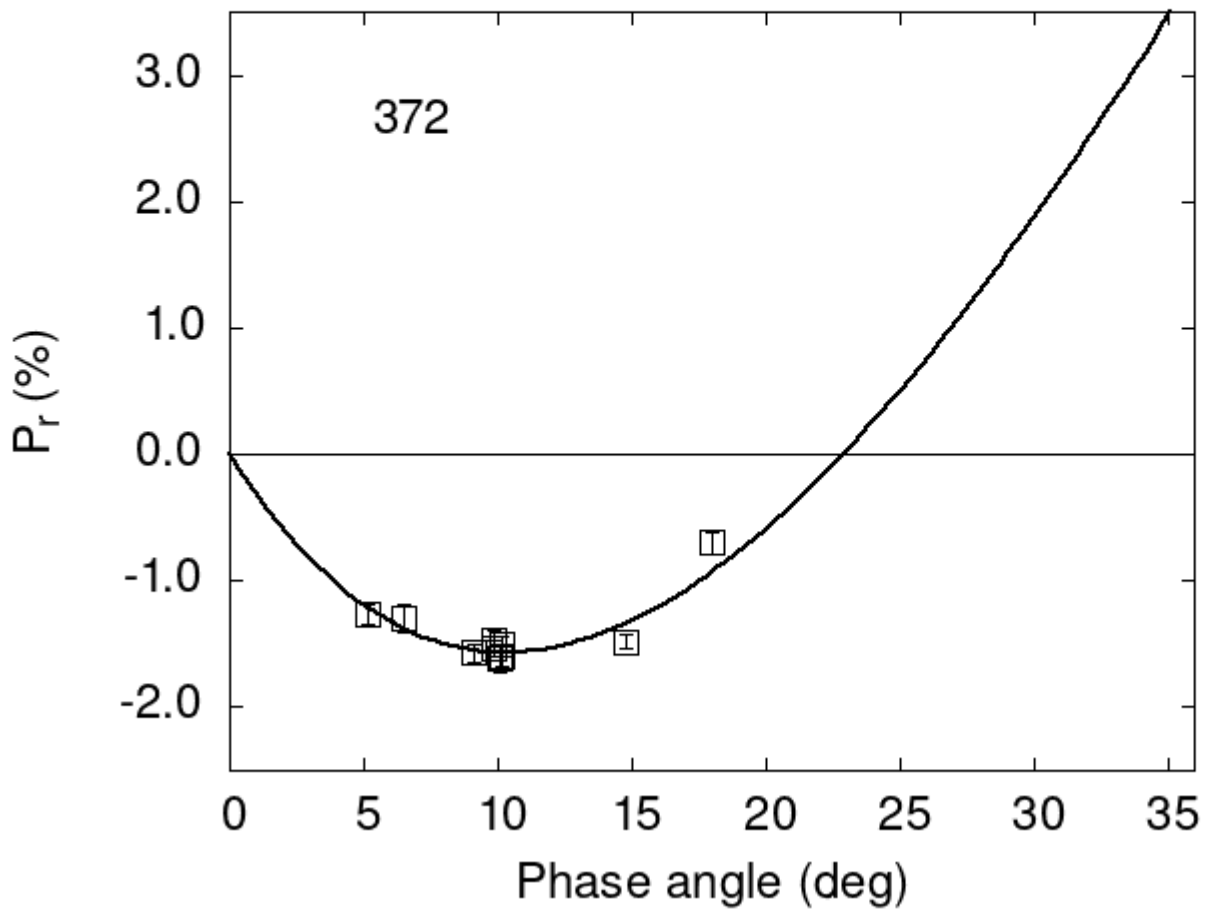
Gil-Hutton (2023)

Polarimetric data:

The columns list the object number, the phase angle (degrees), P_r (%), its error, the filter used, and the reference code.

```
372   5.18 -1.27 0.08 V f
372  10.09 -1.62 0.10 V f
372   9.85 -1.53 0.06 V a
372   9.85 -1.47 0.08 R a
372  10.16 -1.60 0.08 V a
372  10.16 -1.50 0.06 R a
```

```
372   9.10 -1.57 0.07 V a
372   6.50 -1.30 0.11 V a
372 14.80 -1.48 0.05 V a
372 18.00 -0.70 0.09 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
#    14.8316   0.5505   18.7311   0.6379   0.4568   0.0148
#
#     Phmin    err    Pmin     err   Ph0     err    k       err
#     10.30   0.97  -1.568   0.321  22.91   0.18  0.2238  0.0172
```