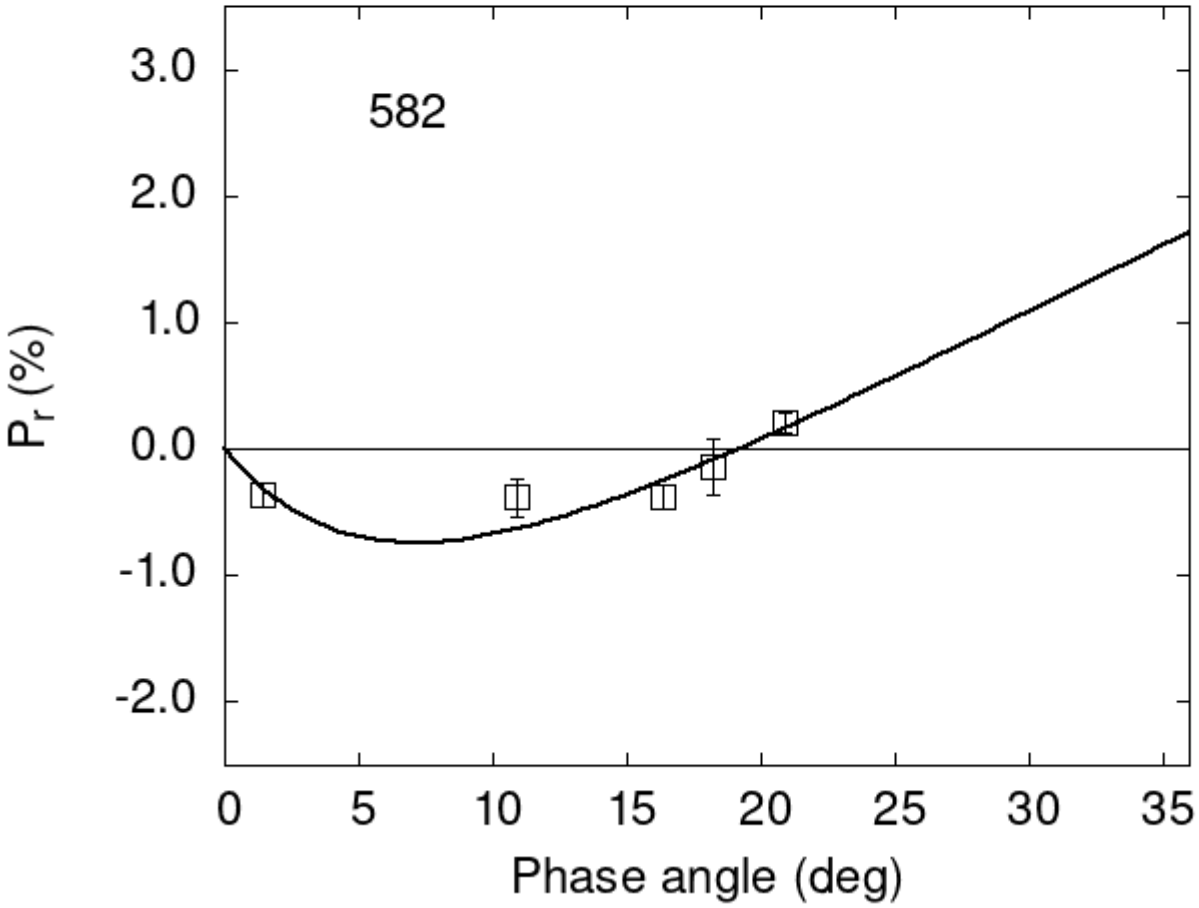
Catalogue of Asteroid Polarization Curves

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.

```
582  1.39 -0.36 0.09 V f
582 10.87 -0.38 0.15 V f
582 16.37 -0.38 0.09 V f
582 18.23 -0.14 0.22 V f
582 20.93  0.21 0.08 V f
```

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
#    2.1147   0.7253   5.7838   2.2239   0.1061   0.0293
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      7.16  2.60 -0.742  0.628 19.22  0.43 0.0929 0.0319
```