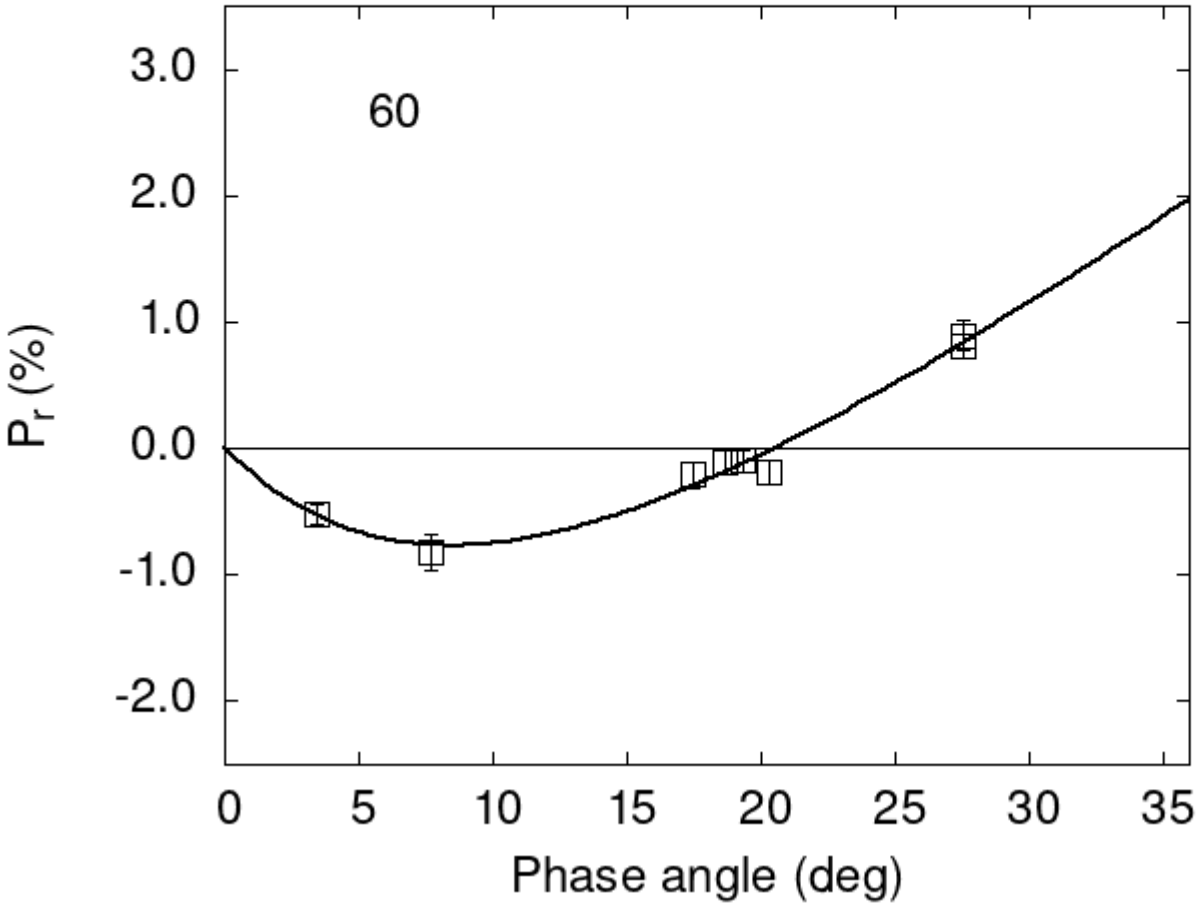
Catalogue of Asteroid Polarization Curves

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.

```
60  3.40 -0.52 0.08 V f
60  7.67 -0.82 0.14 V f
60 17.45 -0.21 0.10 V f
60 18.70 -0.11 0.10 V f
60 19.35 -0.10 0.09 V f
60 20.32 -0.19 0.09 V f
```

```
60 27.53  0.81 0.10 V f
60 27.56  0.89 0.12 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
#    3.4339   0.6070   9.5592   1.9296   0.1477   0.0171
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      8.50  2.03 -0.767  0.462 20.53  0.38 0.1057 0.0210
```