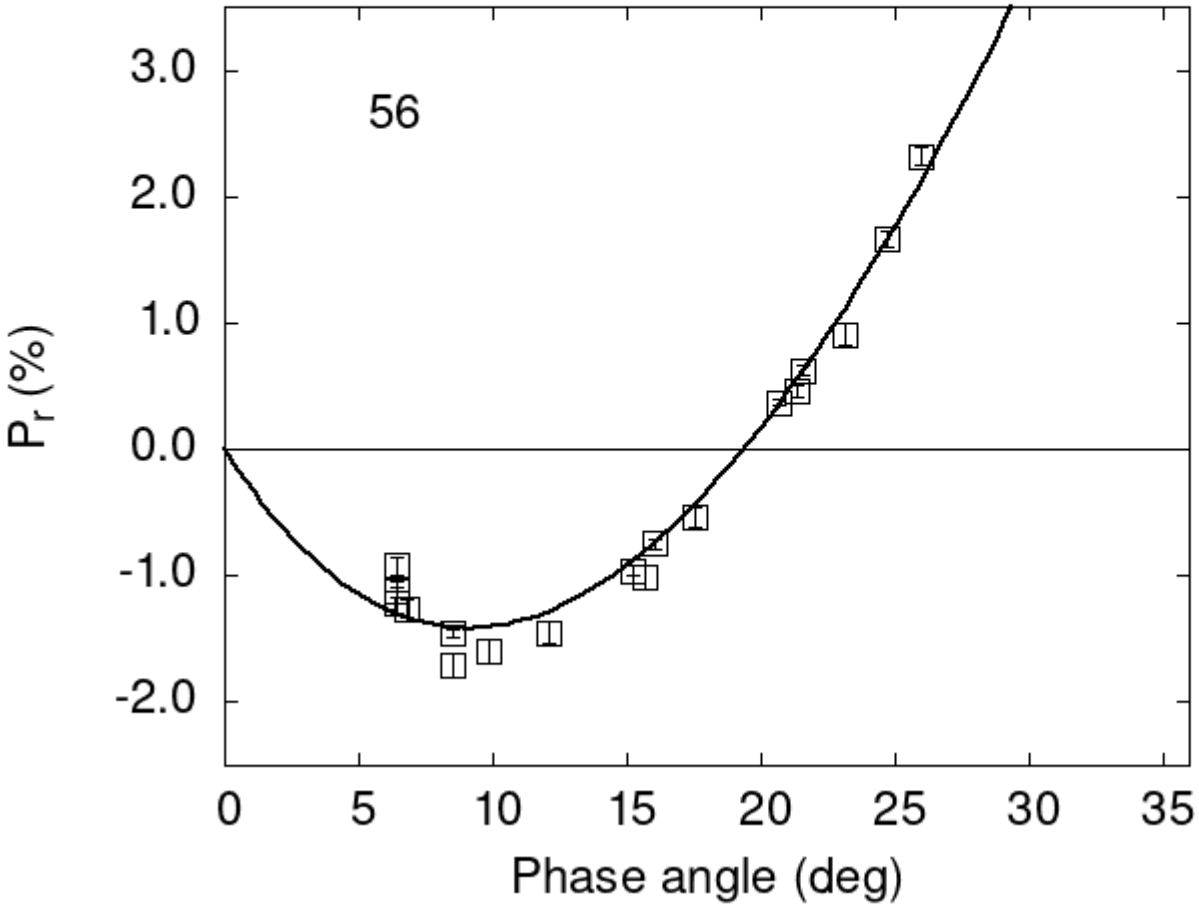
# Catalogue of Asteroid Polarization Curves

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.

```
56  6.39 -1.21 0.09 V f
56  6.39 -1.13 0.09 R f
56  8.52 -1.71 0.09 V f
56  9.88 -1.60 0.09 V f
56 12.08 -1.45 0.09 V f
56 15.66 -1.01 0.09 V f
```

```
56 17.57 -0.54 0.08 V f
56 23.12  0.91 0.09 V f
56 25.98  2.32 0.07 G a
56 21.62  0.62 0.04 G a
56 21.34  0.46 0.05 G a
56  8.48 -1.45 0.03 G a
56 15.26 -0.96 0.04 G a
56 16.04 -0.75 0.04 G a
56 20.66  0.37 0.02 G a
56 24.71  1.66 0.06 G a
56  6.80 -1.26 0.07 V a
56  6.39 -0.92 0.07 V a
56  6.39 -1.13 0.04 R 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 $\alpha$ 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
#   28.9236   0.5188  25.8920   0.4005   0.7863   0.0078
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      9.09  0.59 -1.415  0.202 19.37  0.16 0.2577 0.0124
```