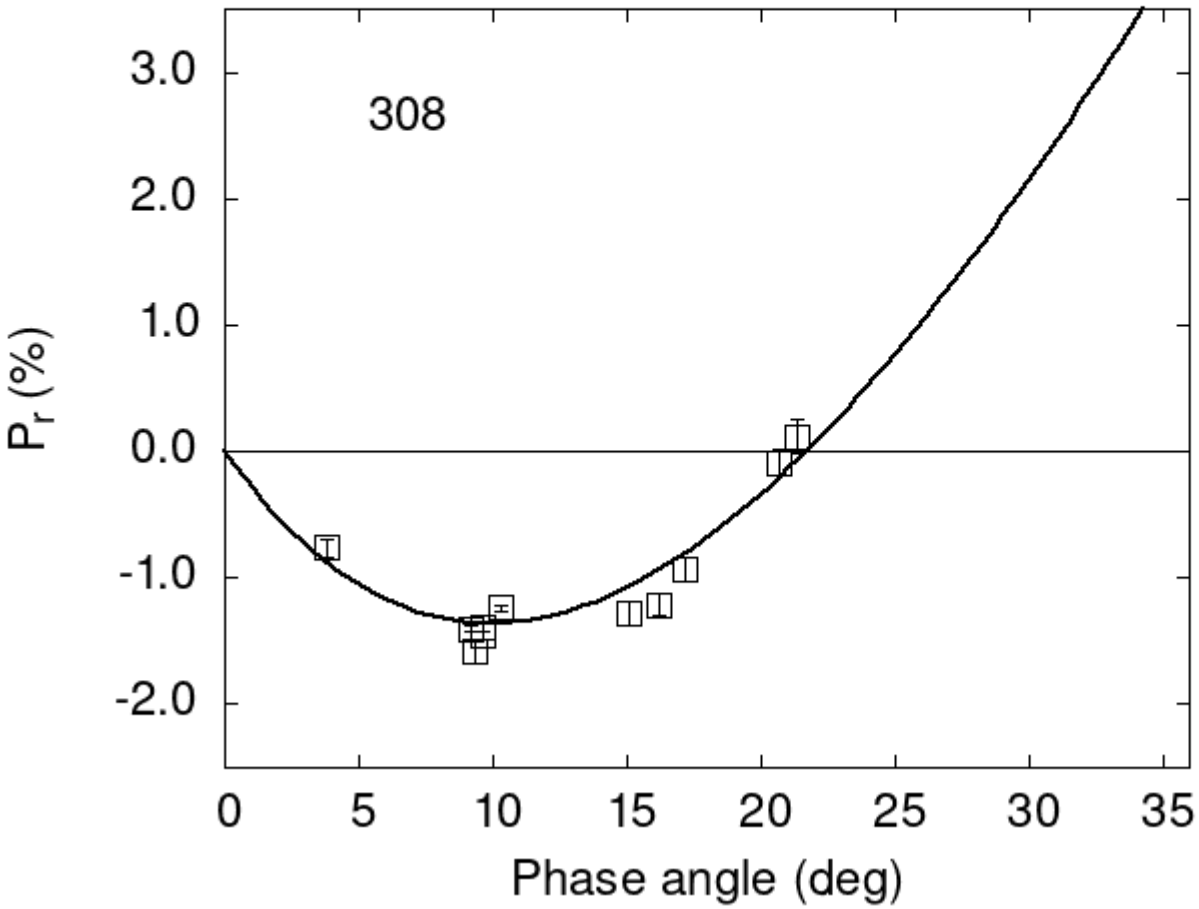
Catalogue of Asteroid Polarization Curves

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.

```
308  9.35 -1.58 0.09 V f
308 15.08 -1.28 0.09 V f
308 16.23 -1.21 0.09 V f
308 17.18 -0.93 0.09 V f
308 20.72 -0.09 0.10 V f
308 21.37  0.12 0.13 V f
```

```
308 10.30 -1.24 0.02 V a
308  9.60 -1.46 0.03 V a
308  9.20 -1.40 0.02 V a
308  9.60 -1.39 0.03 V a
308  3.80 -0.76 0.07 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
#   16.0424   0.4457  20.5700   0.4654   0.4815   0.0121
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      9.92  0.81 -1.362  0.235 21.73  0.19 0.2104 0.0143
```