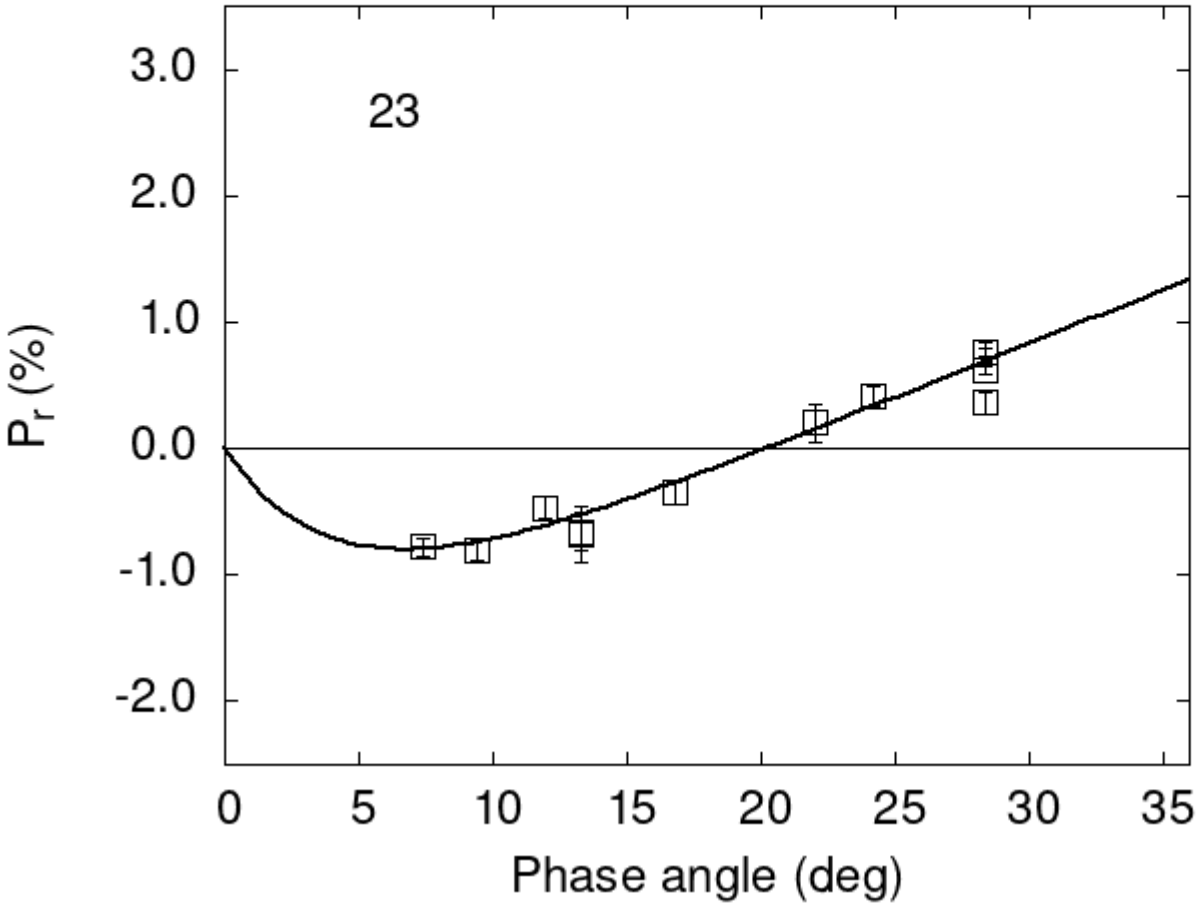
Catalogue of Asteroid Polarization Curves

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.

```
23  9.44 -0.80 0.08 V f
23 11.97 -0.47 0.09 V f
23 24.20  0.41 0.08 V f
23 28.37  0.76 0.08 V f
23 28.37  0.36 0.09 R f
23  7.37 -0.78 0.07 G a
```

```
23 16.82 -0.35 0.09 G a
23 22.04  0.20 0.15 G a
23 13.30 -0.66 0.15 V a
23 13.30 -0.68 0.22 R a
23 28.37  0.62 0.03 V a
23 28.37  0.76 0.03 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 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
#    1.7486   0.3046   4.3568   1.6614   0.0856   0.0100
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      6.73  1.29 -0.800  0.332 20.23  0.49 0.0817 0.0114
```