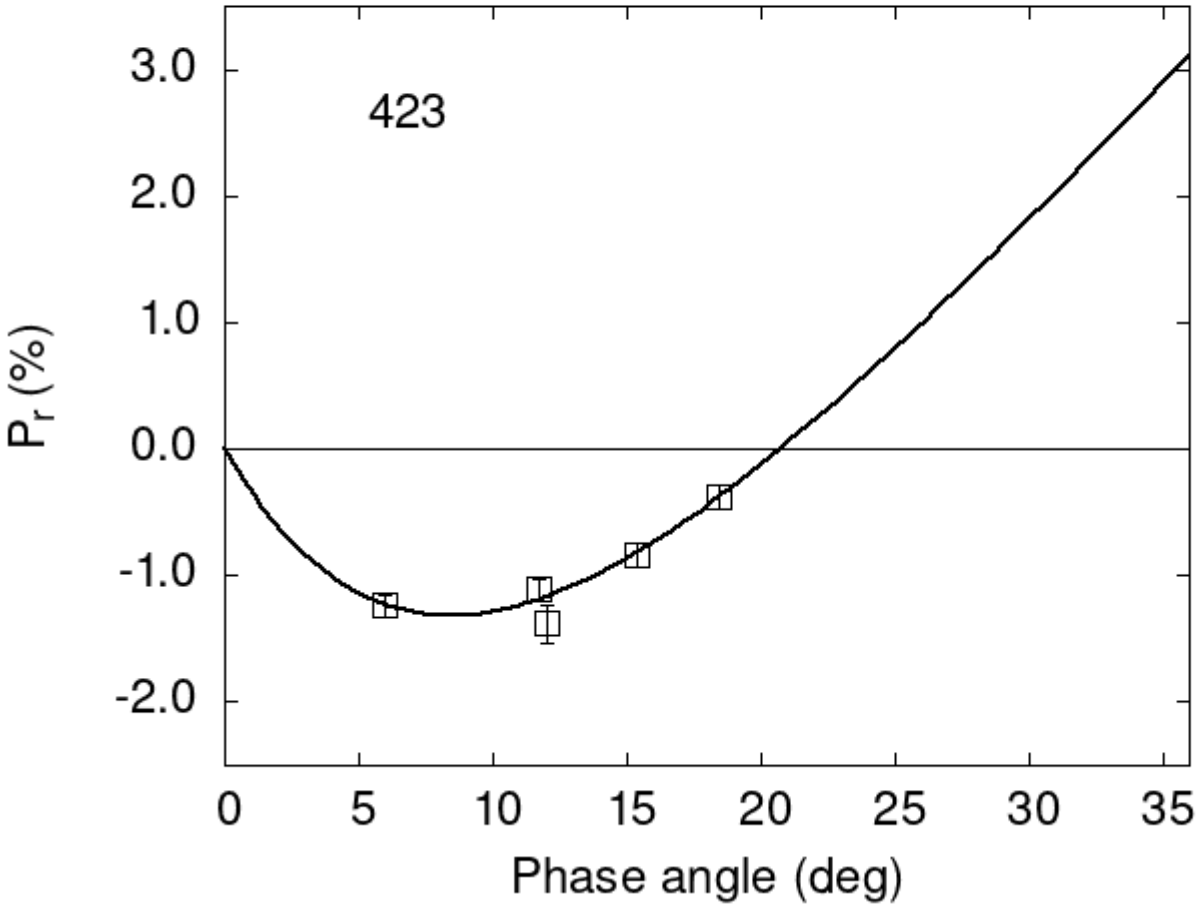
# Catalogue of Asteroid Polarization Curves

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.

```
423  5.98 -1.24 0.09 V f
423 11.69 -1.11 0.09 V f
423 15.36 -0.84 0.10 V f
423 18.44 -0.38 0.09 V f
423 12.00 -1.38 0.15 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 $\alpha$ 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
#    5.2785   0.6162   8.7553   1.0641   0.2305   0.0232
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      8.42  1.35 -1.320  0.489 20.76  0.23 0.1742 0.0259
```