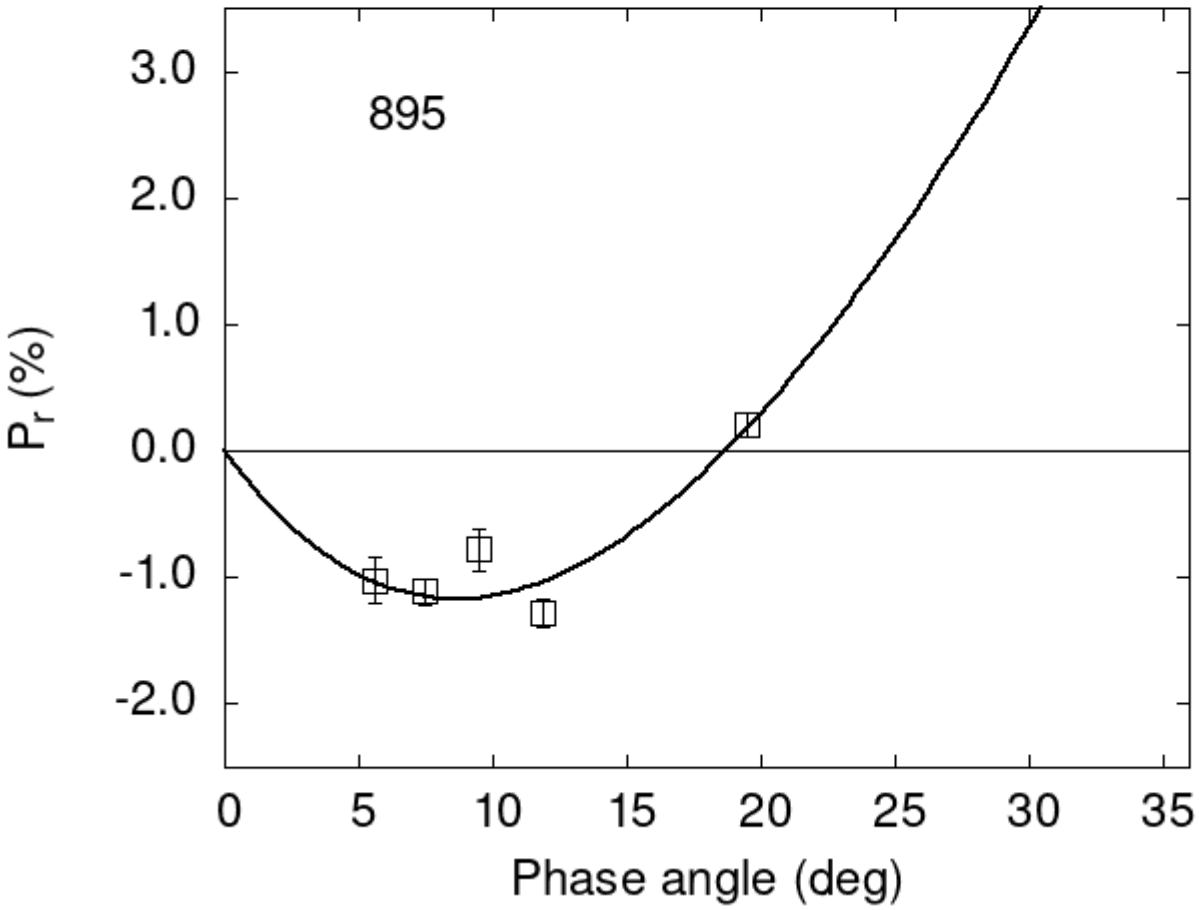
Catalogue of Asteroid Polarization Curves

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.

```
895  7.48 -1.11 0.10 V f
895  9.49 -0.78 0.17 V f
895 19.48  0.21 0.10 V f
895  5.60 -1.02 0.18 V a
895 11.90 -1.28 0.11 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
#   17.6539   0.5914  20.7339   0.8703   0.5608   0.0180
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      8.66  1.09 -1.171  0.326 18.70  0.19 0.2154 0.0214
```