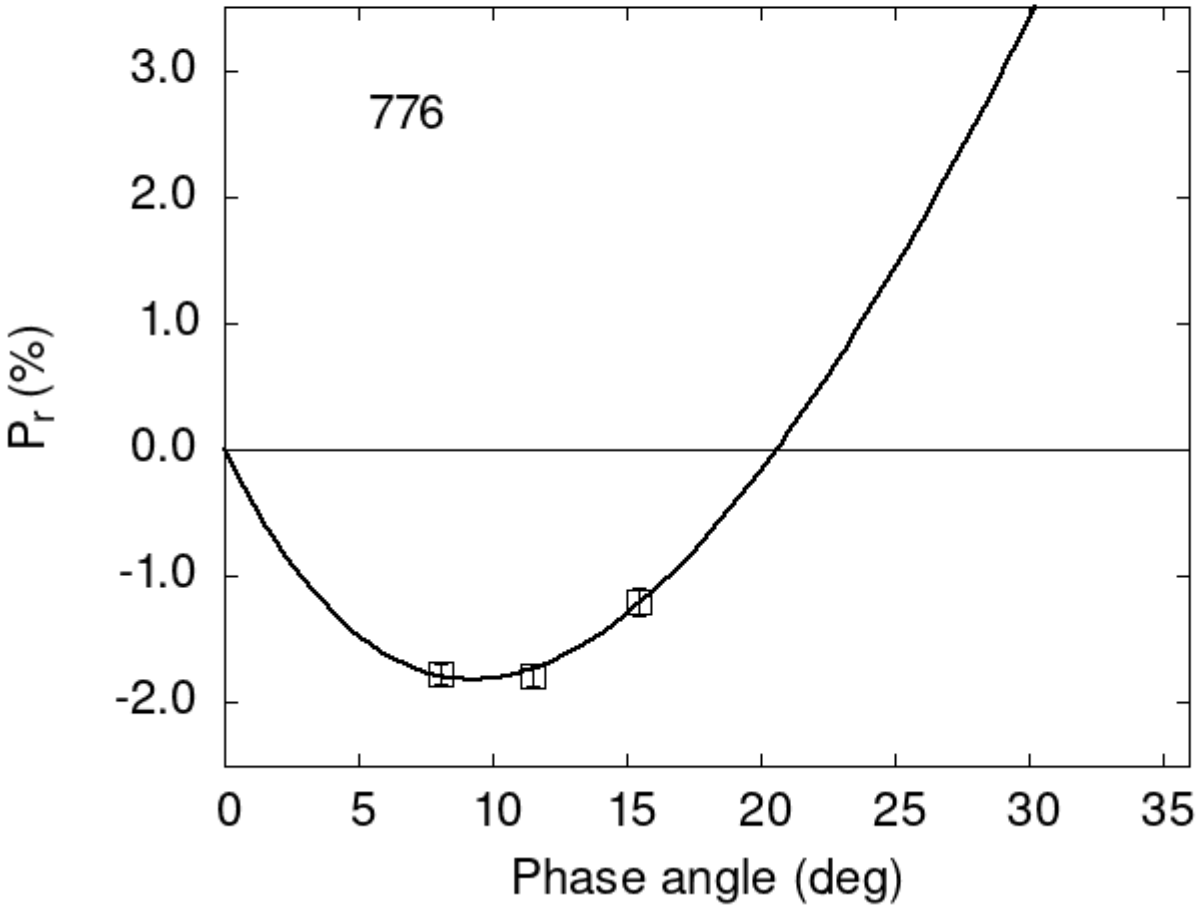
Catalogue of Asteroid Polarization Curves

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.

```
776  8.06 -1.77 0.08 V f
776 11.48 -1.78 0.09 V f
776 15.48 -1.20 0.11 V f
```

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
#   17.3749   0.7785  16.9841   1.1622   0.5926   0.0277
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      9.27  1.22 -1.815  0.561 20.60  0.14 0.2885 0.0312
```