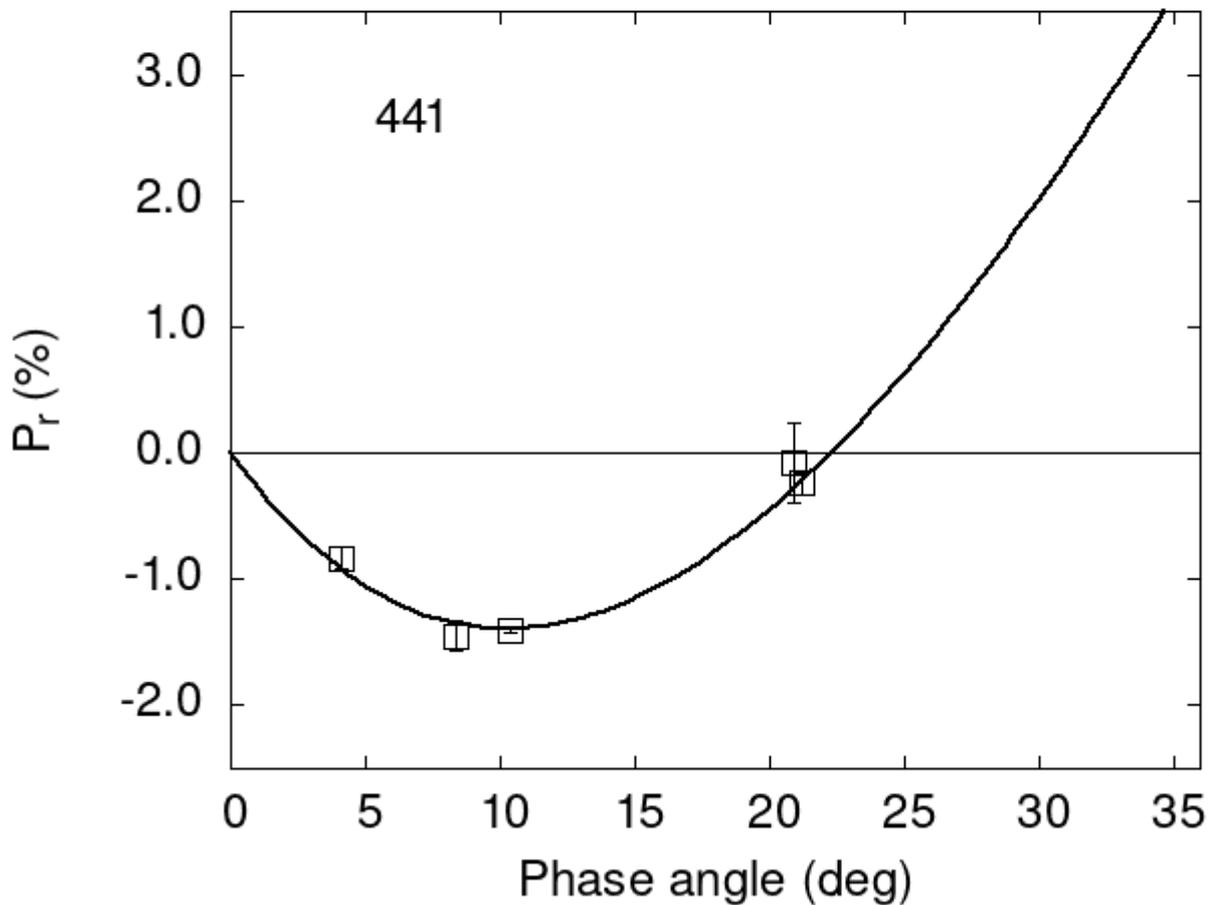


Catalogue of Asteroid Polarization Curves

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.

```
441 20.90 -0.08 0.32 R d
441 21.20 -0.24 0.09 R d
441 4.08 -0.83 0.09 V f
441 8.40 -1.45 0.12 V a
441 10.40 -1.40 0.03 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
# 18.6947  0.7038  22.9405  0.7864  0.5211  0.0164
#
#      Phmin  err  Pmin   err  Ph0    err   k      err
# 10.26  1.21 -1.395  0.355 22.31  0.19 0.2129 0.0201
```