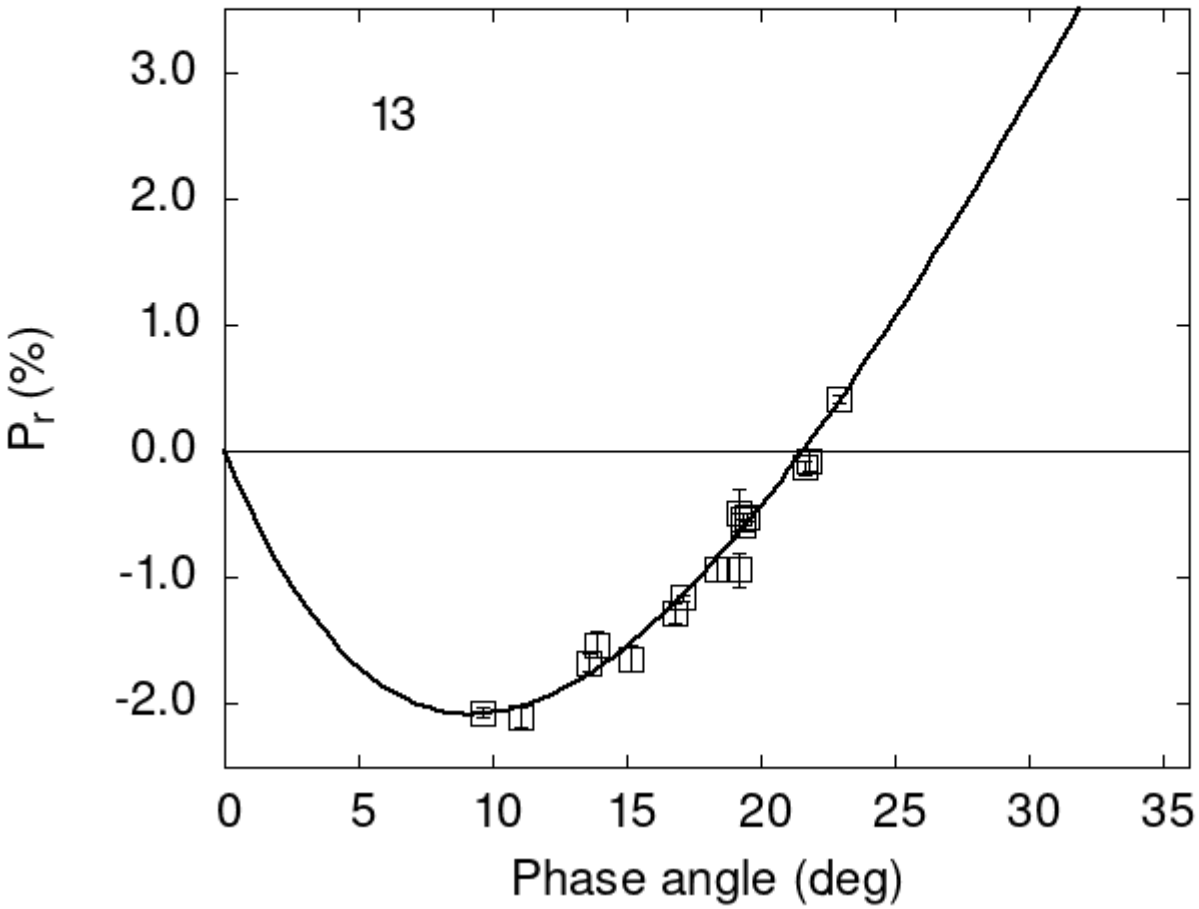
Catalogue of Asteroid Polarization Curves

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.

```
13 11.08 -2.10 0.08 V f
13 15.16 -1.64 0.10 V f
13 16.81 -1.28 0.08 V f
13 18.38 -0.93 0.09 V f
13 21.79 -0.07 0.09 V f
13 19.34 -0.58 0.05 V a
```

```
13 21.63 -0.13 0.06 G a
13 19.50 -0.52 0.03 V a
13 17.12 -1.16 0.02 G a
13  9.60 -2.07 0.04 G a
13 22.95  0.41 0.03 G a
13 19.19 -0.49 0.19 V a
13 19.19 -0.94 0.13 R a
13 19.32 -0.54 0.05 V a
13 19.32 -0.58 0.05 R a
13 13.60 -1.67 0.07 V a
13 13.90 -1.53 0.10 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
#   11.5099   0.4835  11.9570   0.4813   0.4453   0.0128
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      9.22  0.62 -2.080  0.330 21.59  0.14 0.2871 0.0153
```