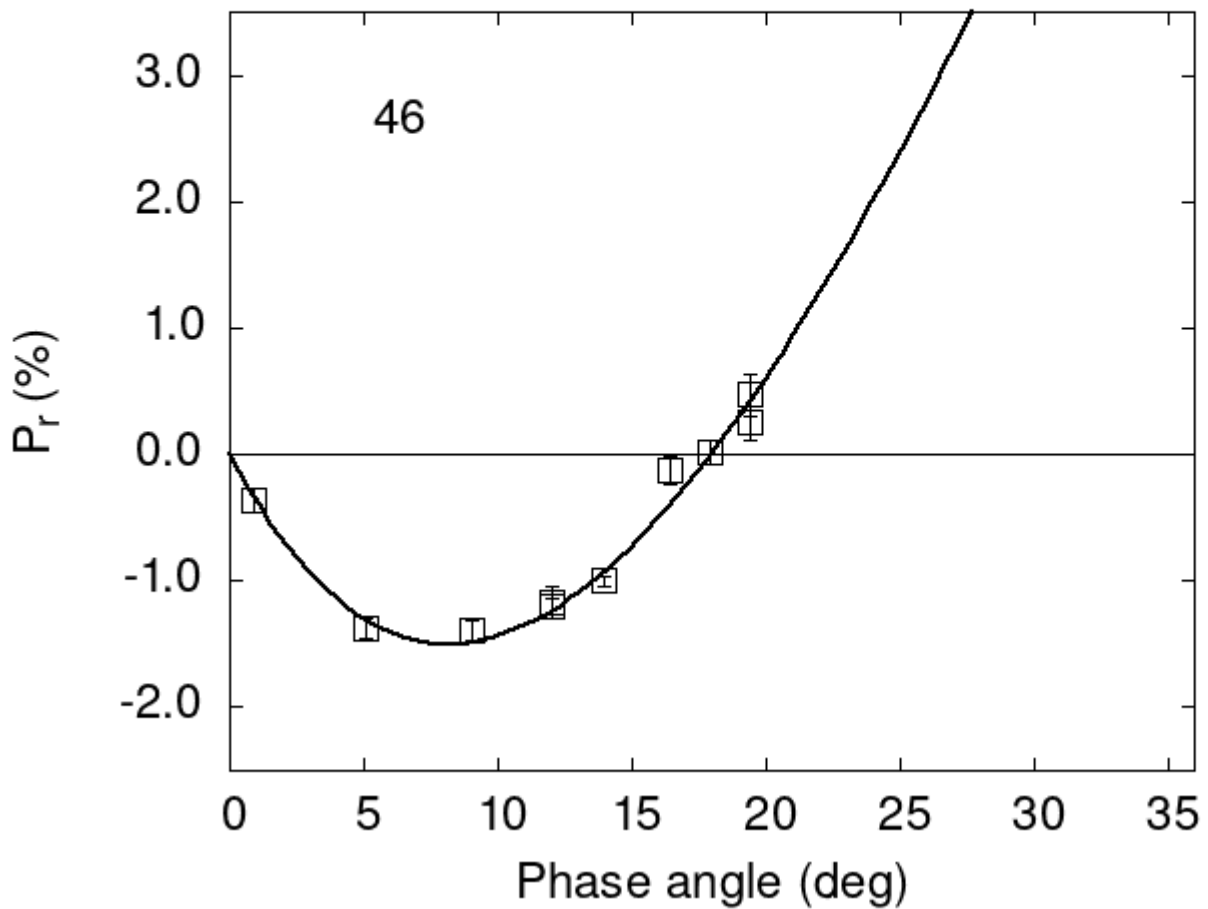


Catalogue of Asteroid Polarization Curves

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.

```
46  0.86 -0.36 0.09 V f
46 16.42 -0.12 0.11 V f
46  9.00 -1.39 0.08 V a
46 12.06 -1.17 0.13 V a
46 12.06 -1.20 0.06 R a
46  5.10 -1.37 0.08 V a
```

```

46 14.00 -1.00 0.04 V a
46 19.40 0.47 0.17 V a
46 19.40 0.25 0.13 R a
46 17.90 0.02 0.10 V h

```

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
# 16.0738  0.5930  15.9916  0.6661  0.6033  0.0177
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      8.16  0.82 -1.501  0.345 17.99 0.14 0.2770 0.0215

```