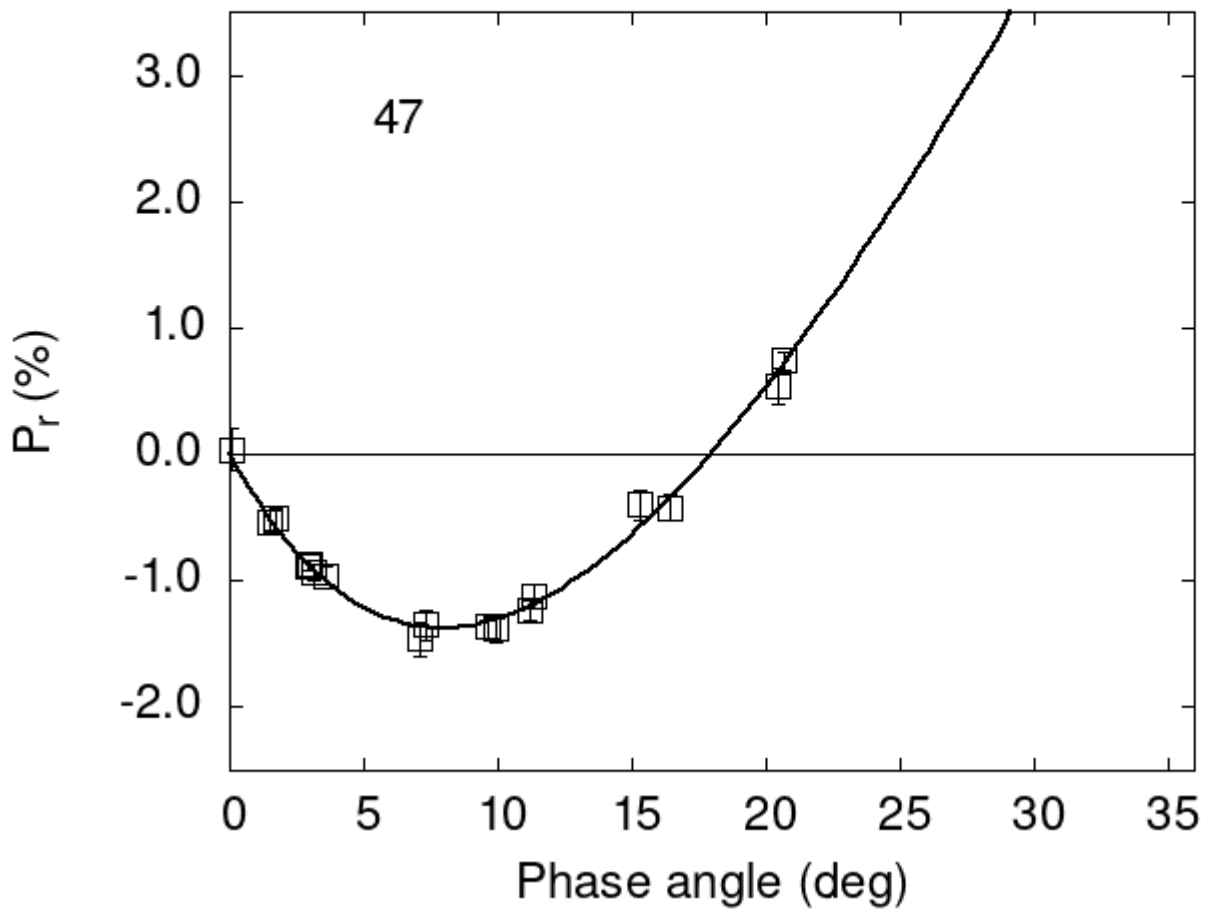


Catalogue of Asteroid Polarization Curves

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.

```
47  1.49 -0.53 0.09 V f
47  1.71 -0.51 0.09 V f
47  9.63 -1.36 0.09 V f
47 11.18 -1.24 0.08 V f
47 11.36 -1.12 0.09 V f
47  2.90 -0.88 0.04 V f
```

```

47 3.00 -0.87 0.04 V f
47 3.10 -0.93 0.06 V f
47 9.90 -1.37 0.11 V a
47 7.30 -1.35 0.12 V a
47 7.10 -1.46 0.13 V a
47 0.10 0.04 0.17 V a
47 15.30 -0.40 0.12 V a
47 16.40 -0.42 0.10 V a
47 20.50 0.54 0.14 V a
47 20.70 0.74 0.07 V a
47 3.60 -0.96 0.07 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
# 10.4814  0.7976 12.6357  0.6749  0.4427  0.0239
#
#      Phmin   err  Pmin   err  Ph0   err   k   err
#      7.93  1.20 -1.375  0.458 17.95  0.17 0.2423 0.0287

```