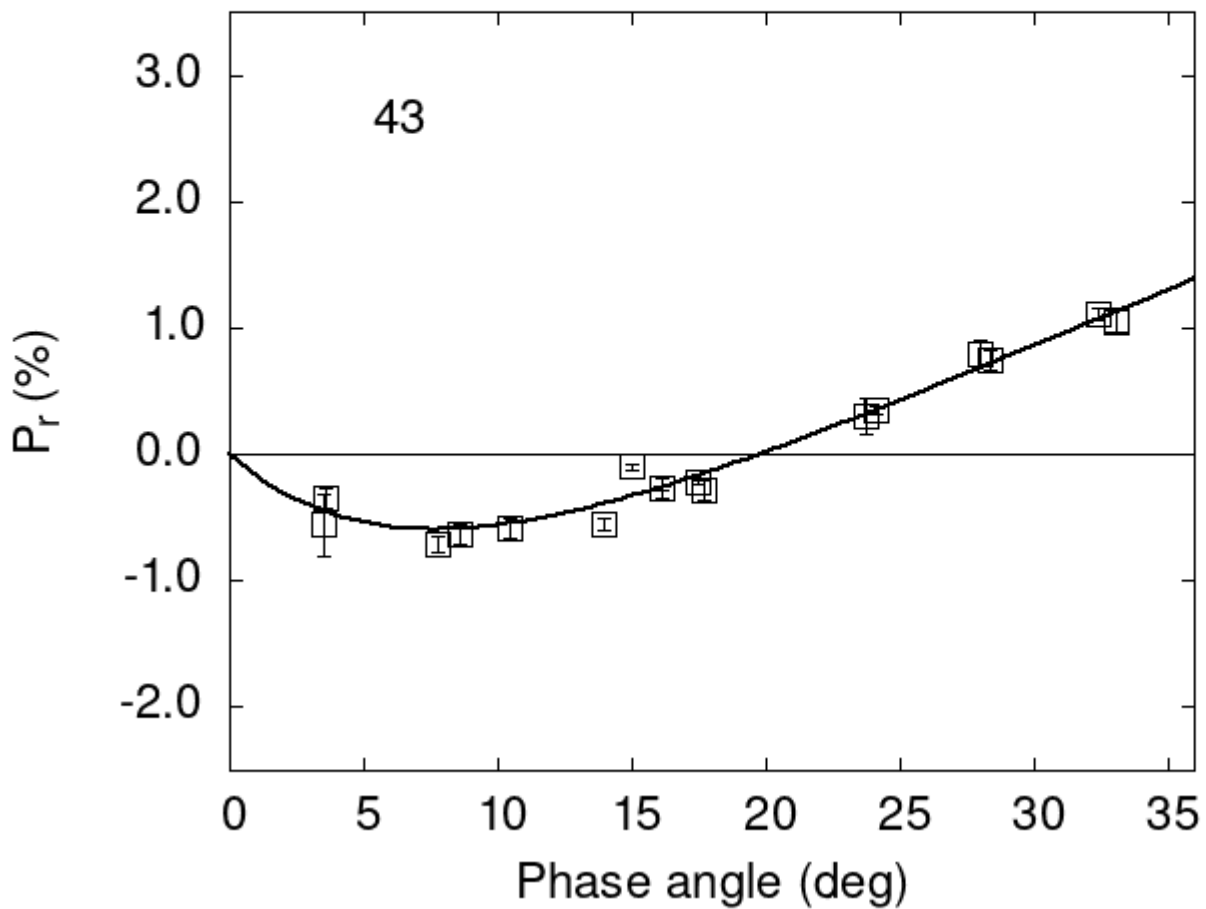


Catalogue of Asteroid Polarization Curves

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.

43	3.57	-0.35	0.08	V	f
43	8.57	-0.63	0.08	V	f
43	10.44	-0.58	0.08	V	f
43	16.10	-0.27	0.08	V	f
43	17.69	-0.29	0.08	V	f
43	23.73	0.30	0.14	V	f

```

43 28.38  0.74 0.08 V f
43 24.10  0.35 0.03 G a
43 15.00 -0.10 0.03 G a
43 32.40  1.11 0.05 V a
43 33.10  1.06 0.09 V a
43 33.10  1.05 0.09 R a
43 17.50 -0.22 0.02 V a
43 16.10 -0.27 0.02 V a
43 28.00  0.80 0.11 V a
43  3.50 -0.56 0.25 V a
43 14.00 -0.55 0.05 V a
43  7.80 -0.71 0.06 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
#      1.9124    0.1530    6.7917    0.9597    0.0914    0.0049
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      7.64    0.67 -0.593  0.148 19.76  0.53 0.0761 0.0066

```