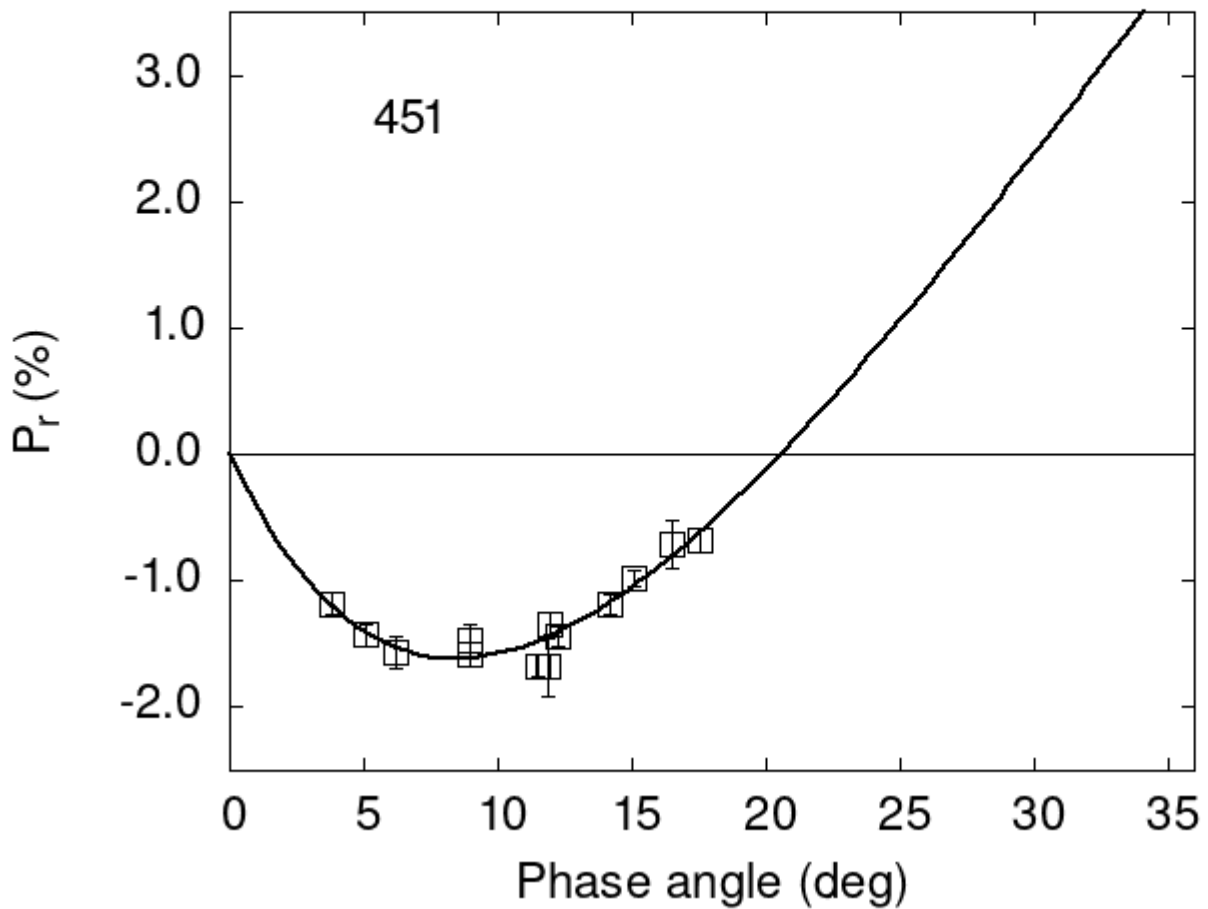


Catalogue of Asteroid Polarization Curves

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.

451	3.81	-1.18	0.09	V	f
451	6.21	-1.57	0.13	V	f
451	11.48	-1.67	0.09	V	f
451	11.88	-1.68	0.23	V	f
451	11.97	-1.34	0.09	V	f
451	12.22	-1.44	0.08	V	f

```

451 14.17 -1.19 0.08 V f
451 14.19 -1.18 0.09 V f
451 17.58 -0.68 0.09 V f
451 15.10 -0.98 0.06 V a
451 8.93 -1.58 0.09 V b
451 8.93 -1.47 0.13 R b
451 5.10 -1.43 0.09 V h
451 16.50 -0.71 0.19 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
#      6.9303      0.4753      9.2155      0.5235      0.3008      0.0198
#
#      Phmin      err      Pmin      err      Ph0      err      k      err
#      8.44      0.88 -1.618      0.361 20.55      0.18 0.2200 0.0213

```