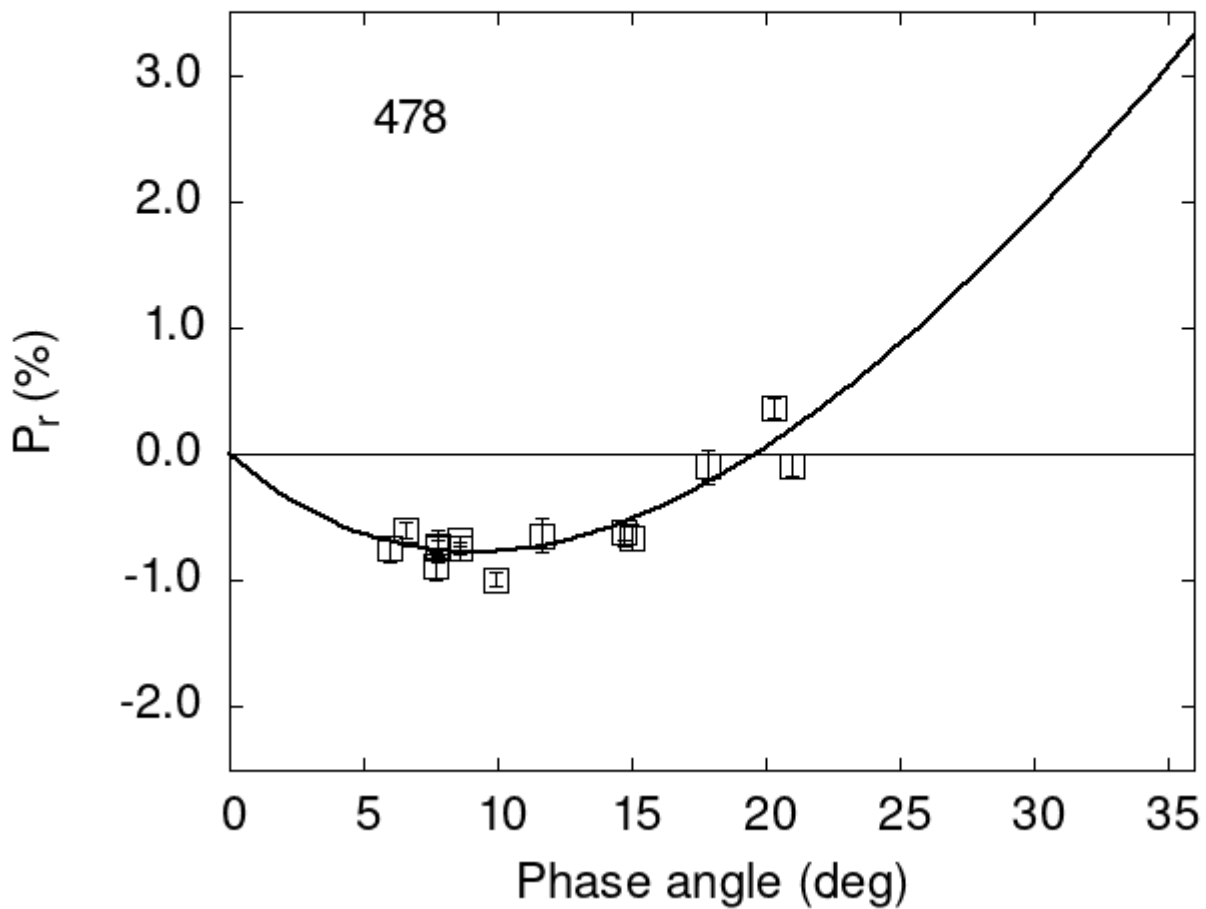


Catalogue of Asteroid Polarization Curves

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.

478	5.98	-0.75	0.10	V	f
478	7.71	-0.89	0.11	V	f
478	7.80	-0.73	0.13	V	f
478	8.60	-0.74	0.09	V	f
478	11.65	-0.64	0.13	V	f
478	14.68	-0.62	0.10	V	f

```

478 17.82 -0.10 0.13 V f
478 9.90 -0.99 0.05 V a
478 20.30 0.36 0.08 V a
478 21.00 -0.09 0.09 V a
478 6.60 -0.60 0.06 V a
478 7.80 -0.74 0.06 V a
478 7.80 -0.73 0.10 V a
478 8.60 -0.68 0.04 V a
478 8.60 -0.74 0.05 V a
478 17.82 -0.10 0.10 V a
478 17.82 -0.10 0.10 V a
478 14.68 -0.62 0.06 V a
478 15.00 -0.66 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
# 11.9706  0.5173 22.0855  0.8679  0.3592  0.0106
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.08   1.26 -0.773  0.237 19.60  0.29 0.1361 0.0143

```