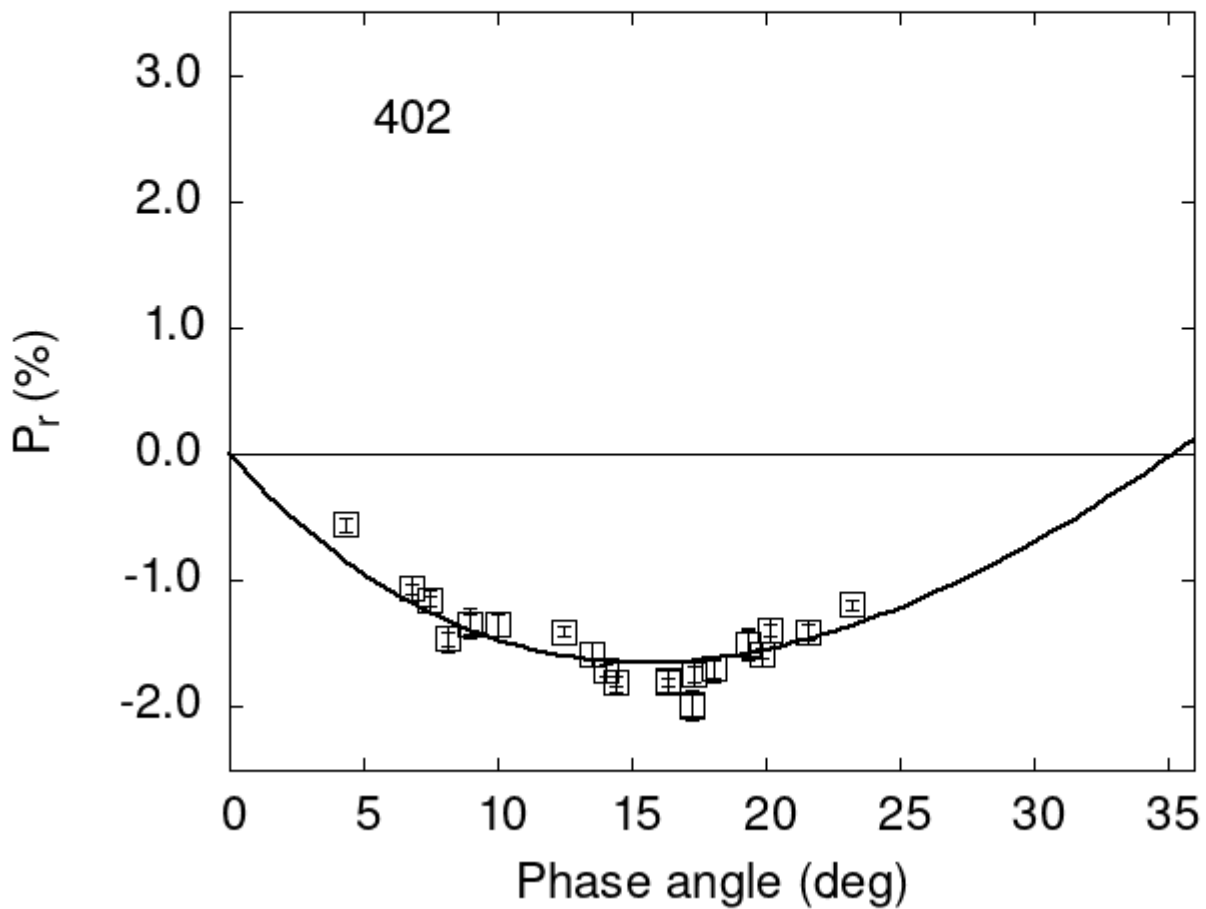


Catalogue of Asteroid Polarization Curves

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.

```
402 6.78 -1.06 0.09 V f
402 7.45 -1.16 0.09 V f
402 8.17 -1.46 0.10 V f
402 8.99 -1.34 0.12 V f
402 9.99 -1.35 0.09 V f
402 14.07 -1.71 0.09 V f
```

```

402 14.42 -1.80 0.09 V f
402 16.35 -1.79 0.09 V f
402 17.28 -1.99 0.12 V f
402 17.35 -1.74 0.10 V f
402 18.05 -1.70 0.10 V f
402 19.36 -1.50 0.13 V f
402 19.90 -1.58 0.09 V f
402 20.15 -1.39 0.10 V f
402 21.58 -1.41 0.10 V f
402  4.30 -0.56 0.05 V a
402 23.20 -1.19 0.04 V a
402 12.50 -1.40 0.04 V a
402 17.35 -1.74 0.06 V a
402 18.05 -1.70 0.07 V a
402 19.36 -1.50 0.11 V a
402  6.78 -1.06 0.04 V a
402  7.45 -1.16 0.04 V a
402  8.17 -1.46 0.06 V a
402  8.99 -1.34 0.08 V a
402 14.07 -1.71 0.05 V a
402 14.42 -1.80 0.04 V a
402 16.35 -1.80 0.03 V a
402 17.28 -1.98 0.09 V a
402 19.90 -1.58 0.04 V a
402 20.15 -1.39 0.05 V a
402 21.58 -1.41 0.06 V a
402 13.50 -1.58 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
# 12.5069  0.4126 24.6736  0.6423  0.2699  0.0078
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
# 15.55  1.11 -1.650  0.253 35.22  0.27 0.1483 0.0089

```