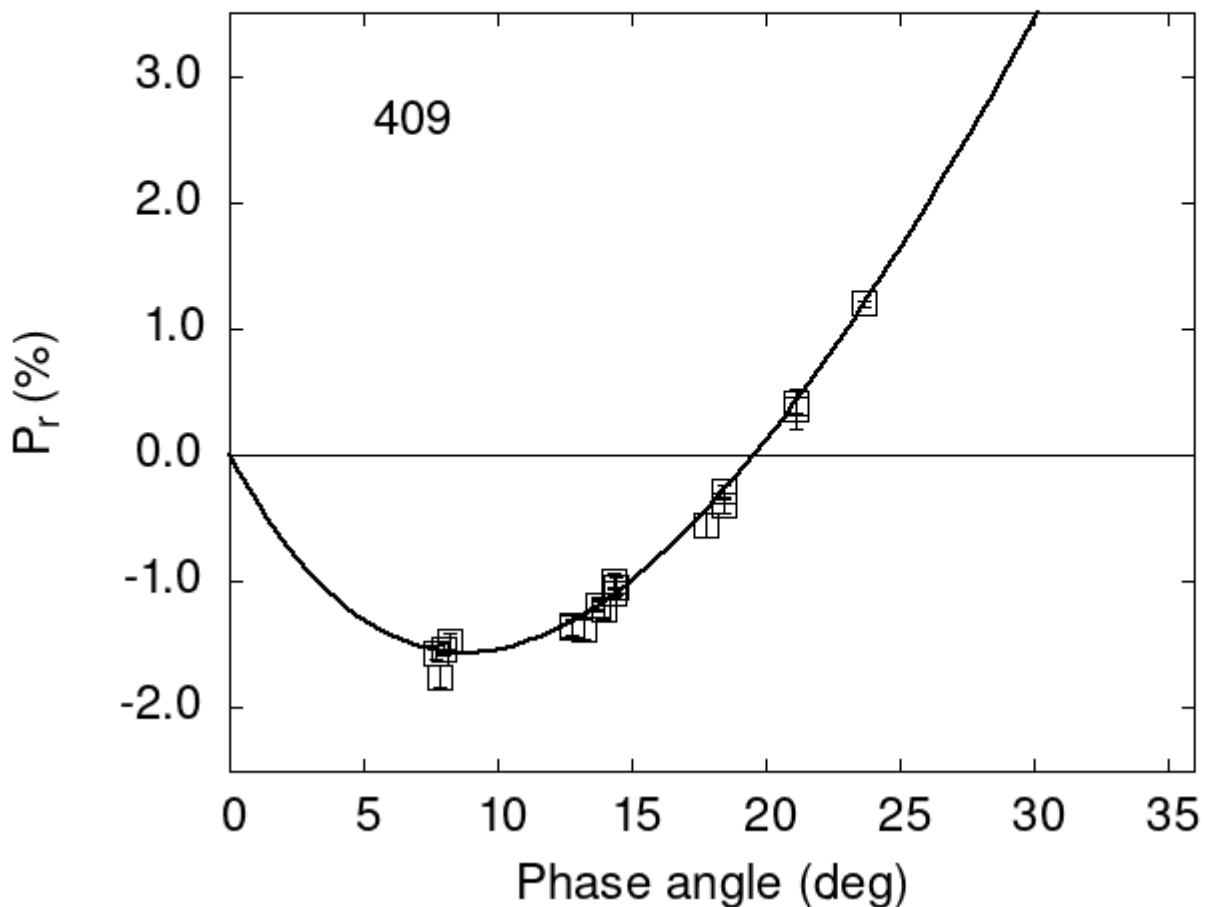


Catalogue of Asteroid Polarization Curves

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.

409	7.87	-1.75	0.09	V	f
409	13.23	-1.37	0.08	V	f
409	13.96	-1.22	0.08	V	f
409	17.81	-0.55	0.10	V	f
409	21.14	0.42	0.09	V	f
409	21.17	0.37	0.16	V	f

```

409 12.80 -1.35 0.09 V f
409 12.80 -1.36 0.06 R f
409 13.75 -1.19 0.05 V f
409 13.75 -1.18 0.03 R f
409 14.35 -1.09 0.04 V f
409 14.35 -1.00 0.06 R f
409 18.43 -0.39 0.06 V a
409 18.43 -0.29 0.05 R a
409 7.70 -1.56 0.05 V a
409 14.40 -1.04 0.07 V a
409 23.70 1.20 0.02 V a
409 8.20 -1.47 0.07 V a
409 8.00 -1.53 0.05 V a
409 13.75 -1.19 0.05 V b
409 13.75 -1.18 0.03 R b
409 14.35 -1.09 0.05 V b
409 14.35 -1.00 0.06 R b
409 12.80 -1.35 0.09 V b
409 12.80 -1.36 0.06 R b

```

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
# 13.9737   0.5035  15.4053   0.4579   0.5135   0.0112
#
#      Phmin     err     Pmin     err    Ph0     err      k      err
#      8.77   0.68 -1.563   0.274 19.58   0.15 0.2590  0.0146

```