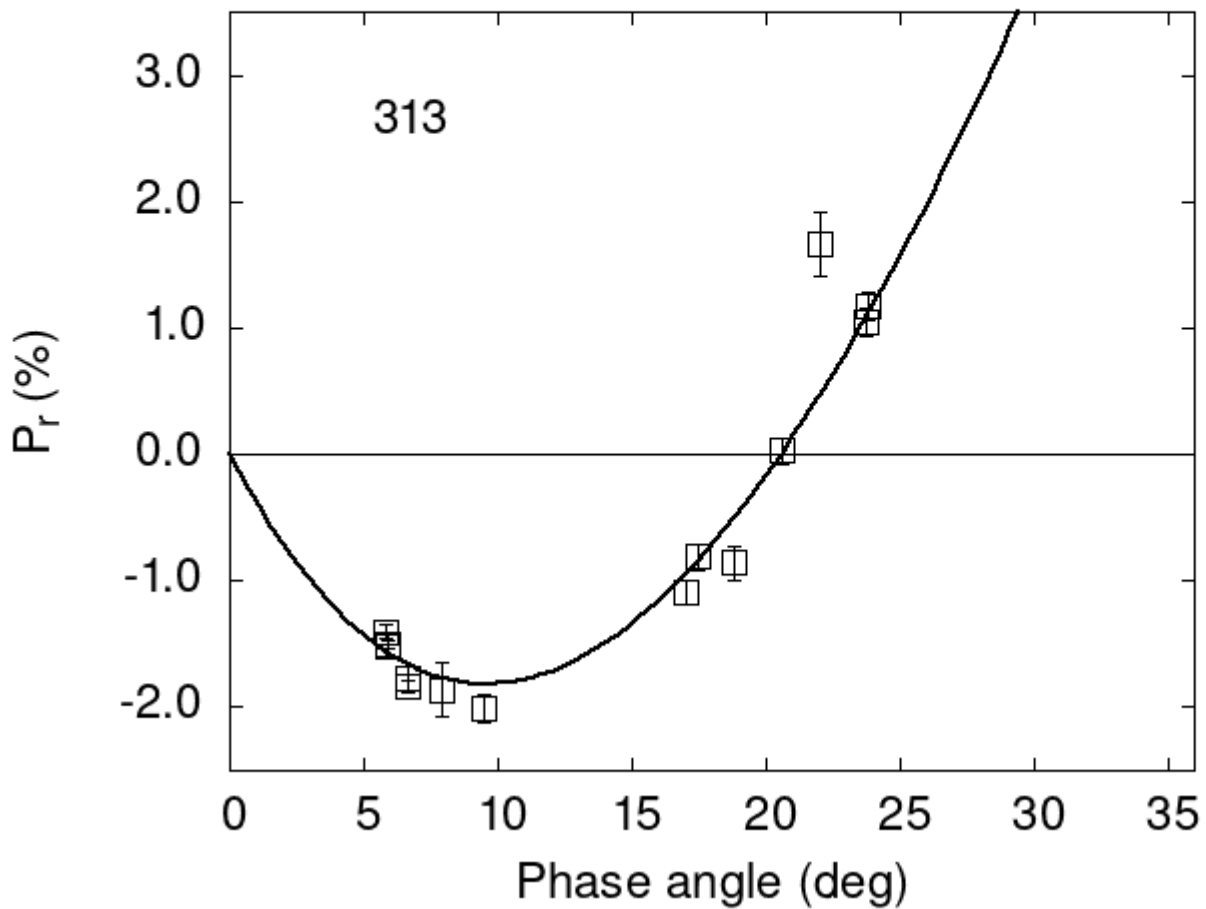


Catalogue of Asteroid Polarization Curves

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.

313	5.89	-1.52	0.10	V	f
313	6.67	-1.77	0.09	V	f
313	9.48	-2.01	0.11	V	f
313	17.02	-1.09	0.10	V	f
313	17.45	-0.81	0.10	V	f
313	20.60	0.03	0.10	V	f

```

313 23.78  1.04 0.11 V f
313 23.85  1.17 0.11 V f
313  6.67 -1.84 0.05 V a
313  5.89 -1.50 0.03 V a
313  5.80 -1.40 0.06 V a
313  7.90 -1.86 0.22 V a
313 22.00  1.66 0.25 V a
313 18.80 -0.86 0.13 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
# 31.0724  1.0950  24.6808  0.5624  0.8537  0.0197
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.59  1.10 -1.818  0.441 20.59  0.13 0.3070 0.0276

```