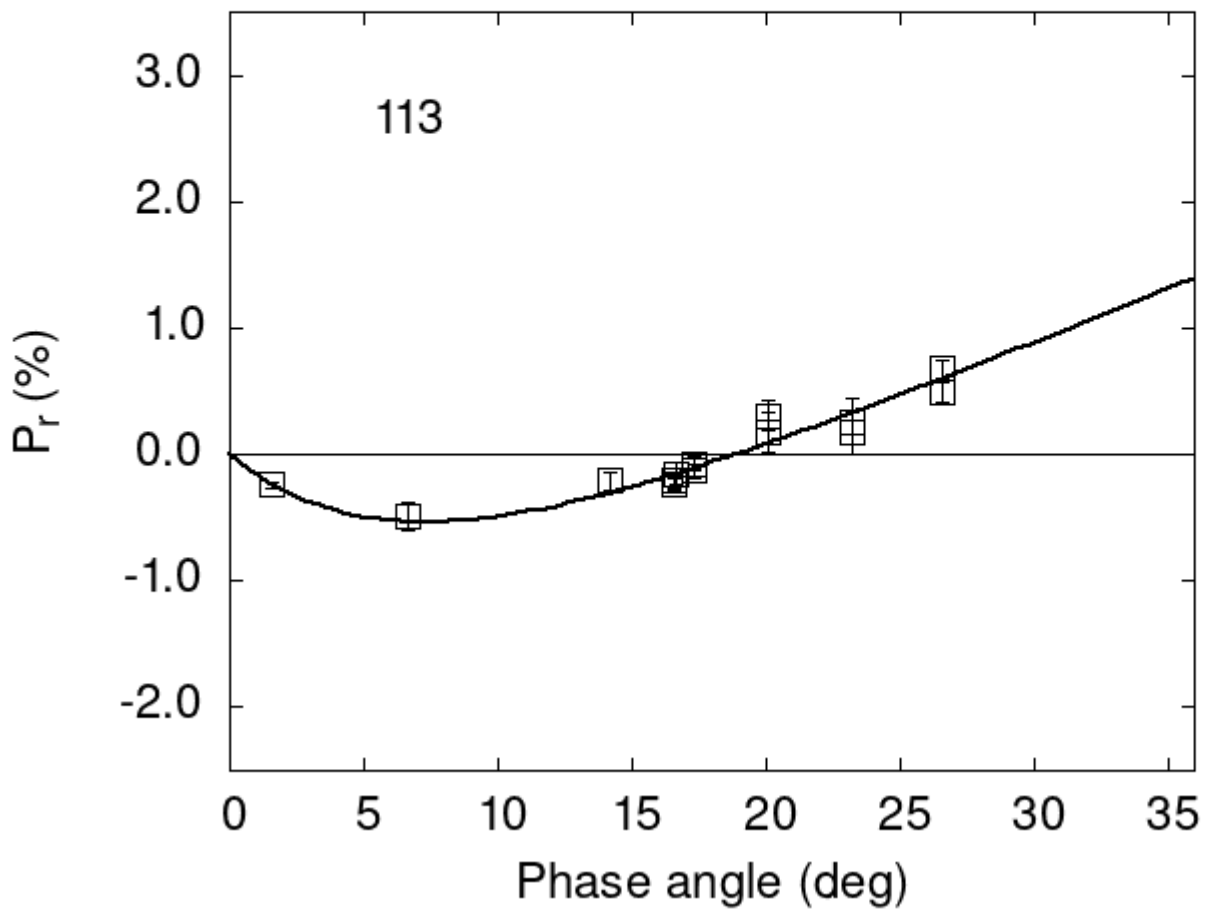


Catalogue of Asteroid Polarization Curves

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.

113	6.66	-0.49	0.11	V	f
113	16.62	-0.15	0.09	V	f
113	16.58	-0.20	0.06	V	f
113	16.58	-0.24	0.06	R	f
113	17.30	-0.07	0.05	V	f
113	17.30	-0.13	0.06	R	f

```

113 20.12  0.17 0.16 V f
113 20.12  0.31 0.12 R f
113 23.23  0.26 0.18 V f
113 23.23  0.17 0.17 R f
113 26.62  0.68 0.07 V f
113 26.62  0.49 0.08 R f
113 14.20 -0.21 0.07 V f
113  1.60 -0.24 0.02 V a
113 26.62  0.68 0.07 V b
113 26.62  0.49 0.08 R b
113 20.12  0.17 0.16 V b
113 20.12  0.31 0.12 R b
113 23.23  0.26 0.18 V b
113 23.23  0.17 0.17 R b
113 17.30 -0.07 0.05 V b
113 17.30 -0.13 0.06 R b
113 16.58 -0.20 0.06 V b
113 16.58 -0.24 0.05 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
#      1.7313    0.2295    6.5233    1.0570    0.0864    0.0083
#
#      Phmin    err  Pmin    err  Ph0    err  k      err
#      7.32    1.08 -0.535  0.195 18.93  0.56 0.0718 0.0096

```