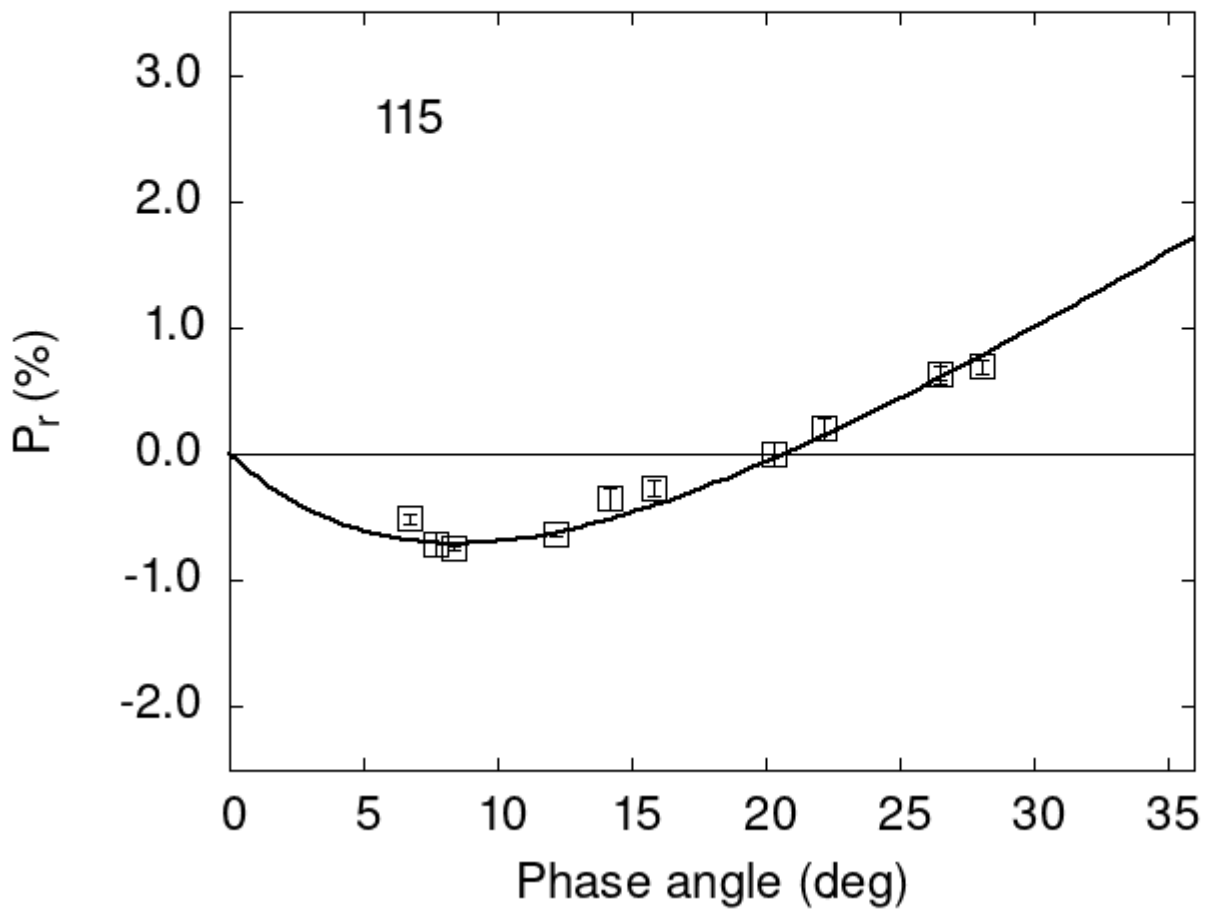


# Catalogue of Asteroid Polarization Curves

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.

115	7.73	-0.71	0.09	V	f
115	14.20	-0.35	0.09	V	f
115	22.21	0.20	0.09	V	f
115	12.14	-0.63	0.01	V	a
115	8.34	-0.74	0.02	G	a
115	6.70	-0.51	0.04	V	a

```

115 26.50 0.64 0.09 V a
115 26.50 0.64 0.06 R a
115 28.10 0.69 0.06 V a
115 15.80 -0.27 0.06 V a
115 20.30 0.00 0.09 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  $\alpha$  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
#      2.9776    0.2932    9.1700    0.9143    0.1287    0.0092
#
#      Phmin    err    Pmin    err    Ph0    err    k      err
#      8.49    1.12 -0.705  0.222  20.70  0.42  0.0948  0.0107

```