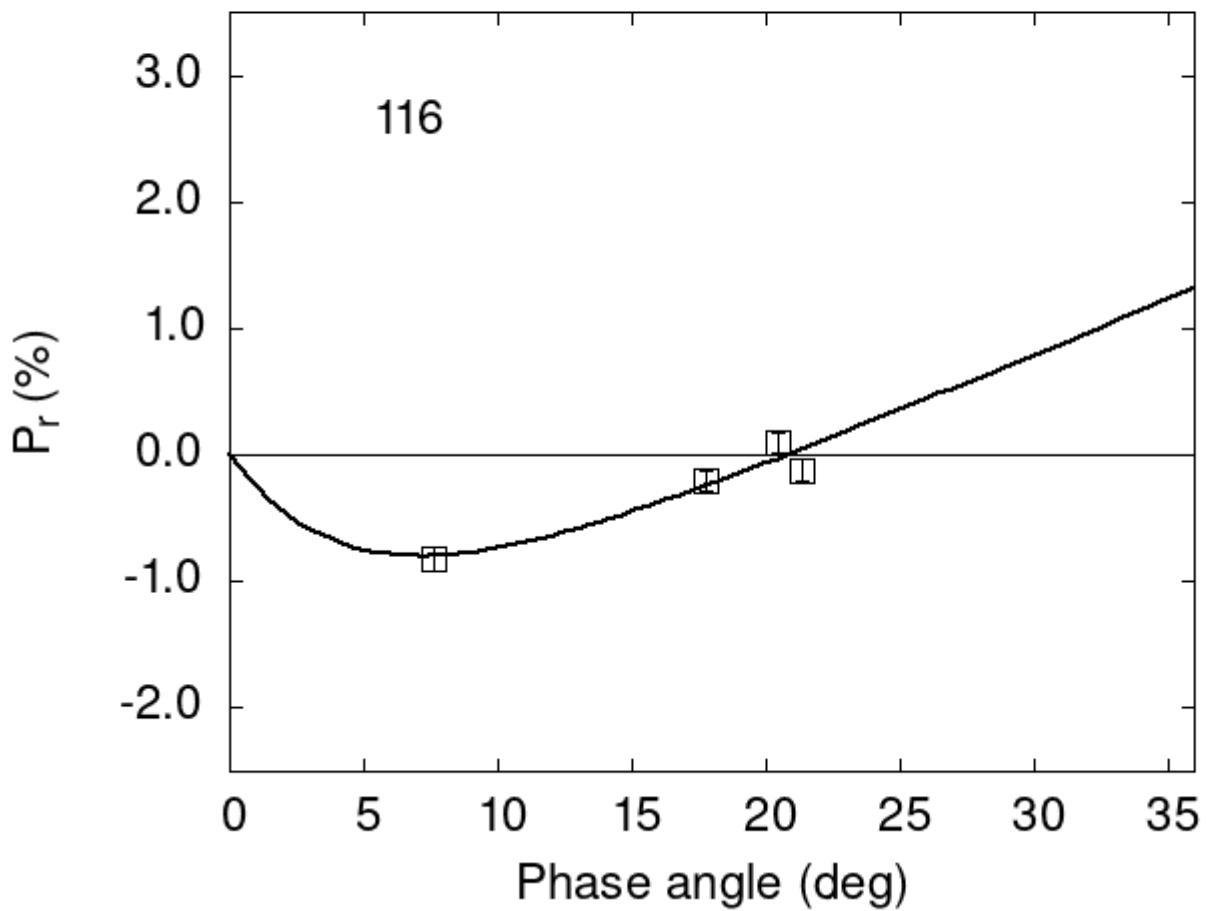


# Catalogue of Asteroid Polarization Curves

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.

116	7.63	-0.82	0.09	V	f
116	17.78	-0.20	0.08	V	f
116	20.50	0.10	0.08	V	f
116	21.34	-0.12	0.09	V	f

## 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
#      1.8600      0.3457      4.9000      1.4675      0.0880      0.0159
#
#      Phmin      err      Pmin      err      Ph0      err      k      err
#      7.16      1.44 -0.798      0.345      20.83      0.48      0.0826      0.0168
```