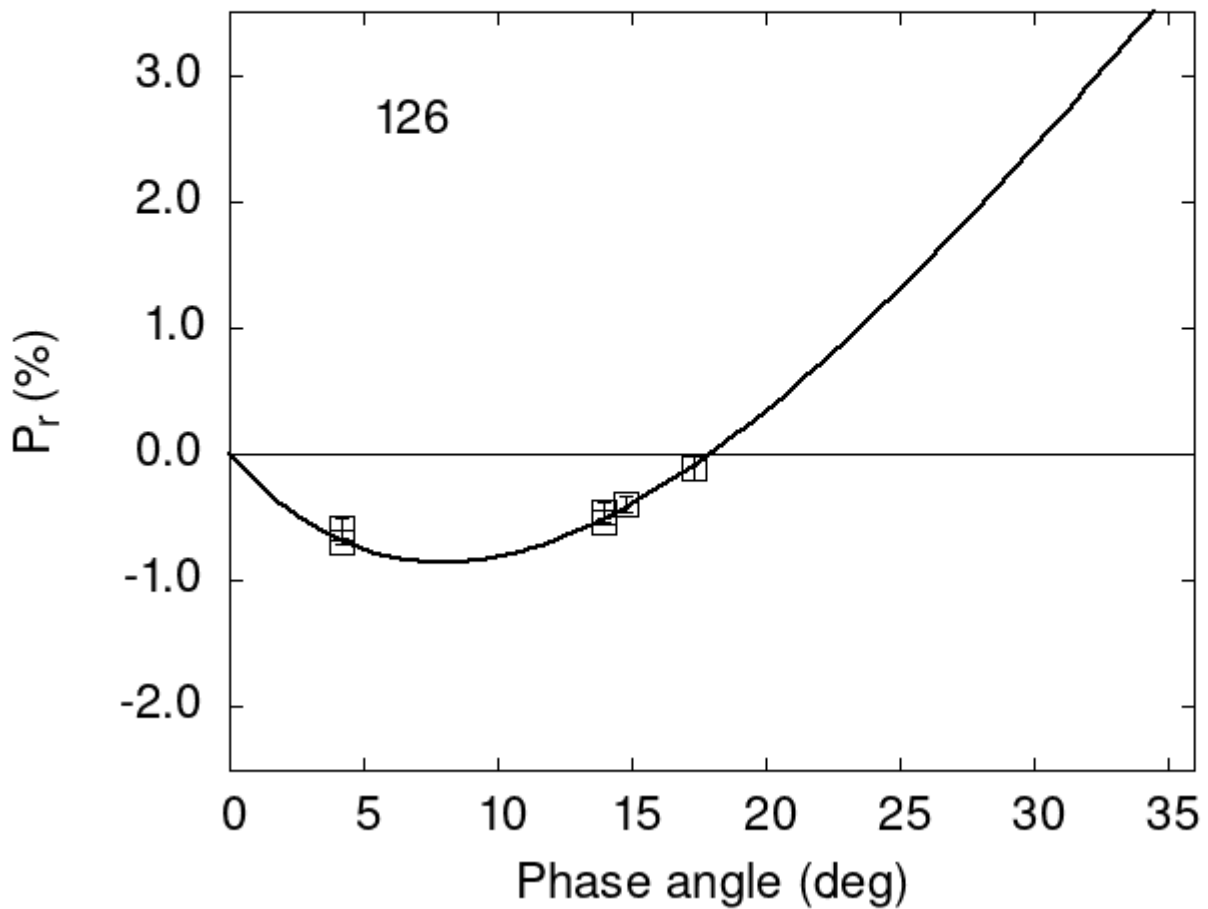


# Catalogue of Asteroid Polarization Curves

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.

126	4.20	-0.59	0.09	V	f
126	17.34	-0.11	0.09	V	f
126	13.97	-0.53	0.03	V	a
126	13.97	-0.46	0.08	R	a
126	14.80	-0.39	0.06	V	a
126	4.20	-0.69	0.02	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
#      7.0149    0.2869    13.2744    0.4469    0.2899    0.0096
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      7.97    0.72 -0.856    0.169 17.92    0.26 0.1529 0.0112
```