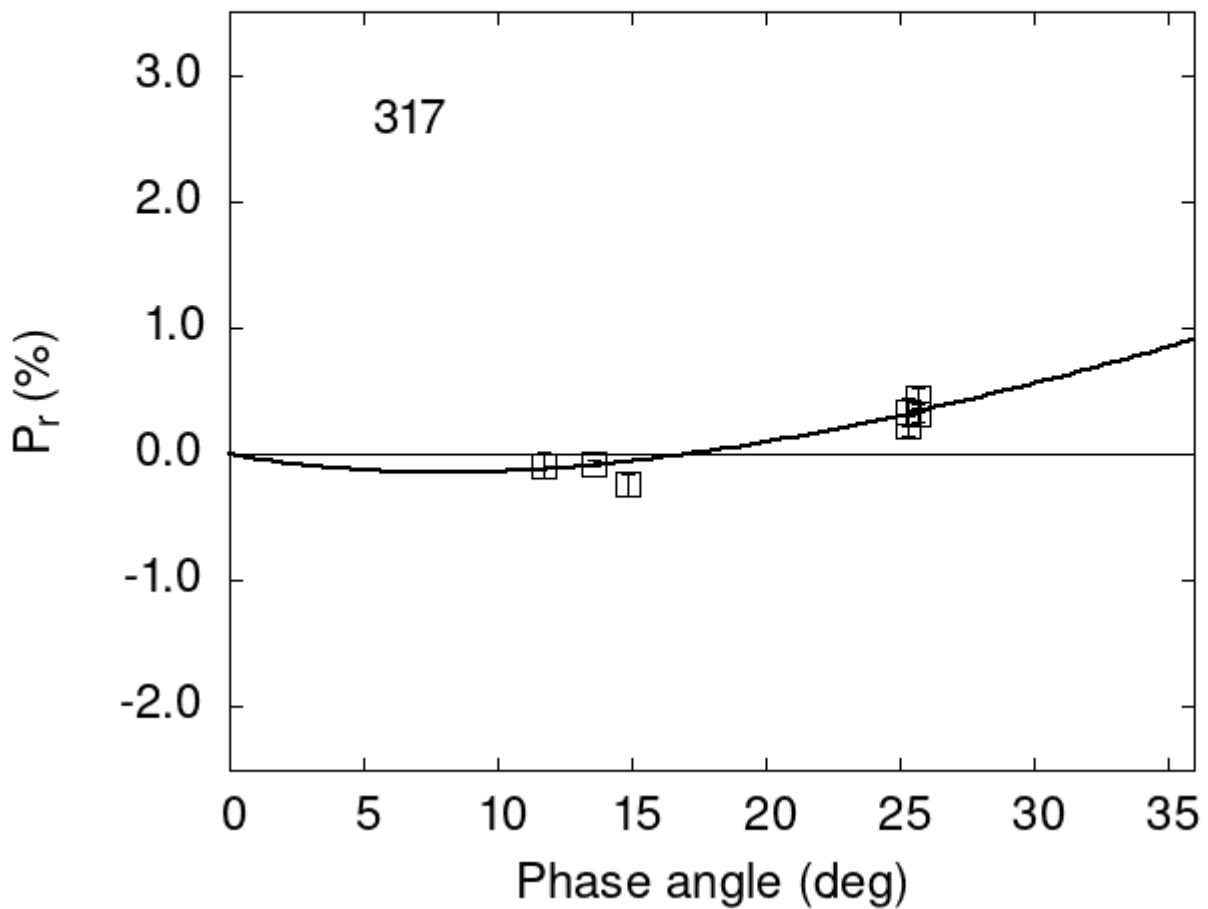


# Catalogue of Asteroid Polarization Curves

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.

317	11.76	-0.09	0.10	V	f
317	14.90	-0.24	0.09	V	f
317	25.33	0.34	0.11	V	a
317	25.33	0.22	0.08	R	a
317	25.69	0.45	0.08	V	a
317	25.69	0.32	0.07	R	a

317 13.60 -0.07 0.03 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
#      2.6460     0.1669    21.4754    2.5636     0.0849     0.0054
#
#      Phmin    err   Pmin    err   Ph0    err    k      err
#      8.00    2.51 -0.144  0.105 17.12  1.36 0.0294 0.0066
```