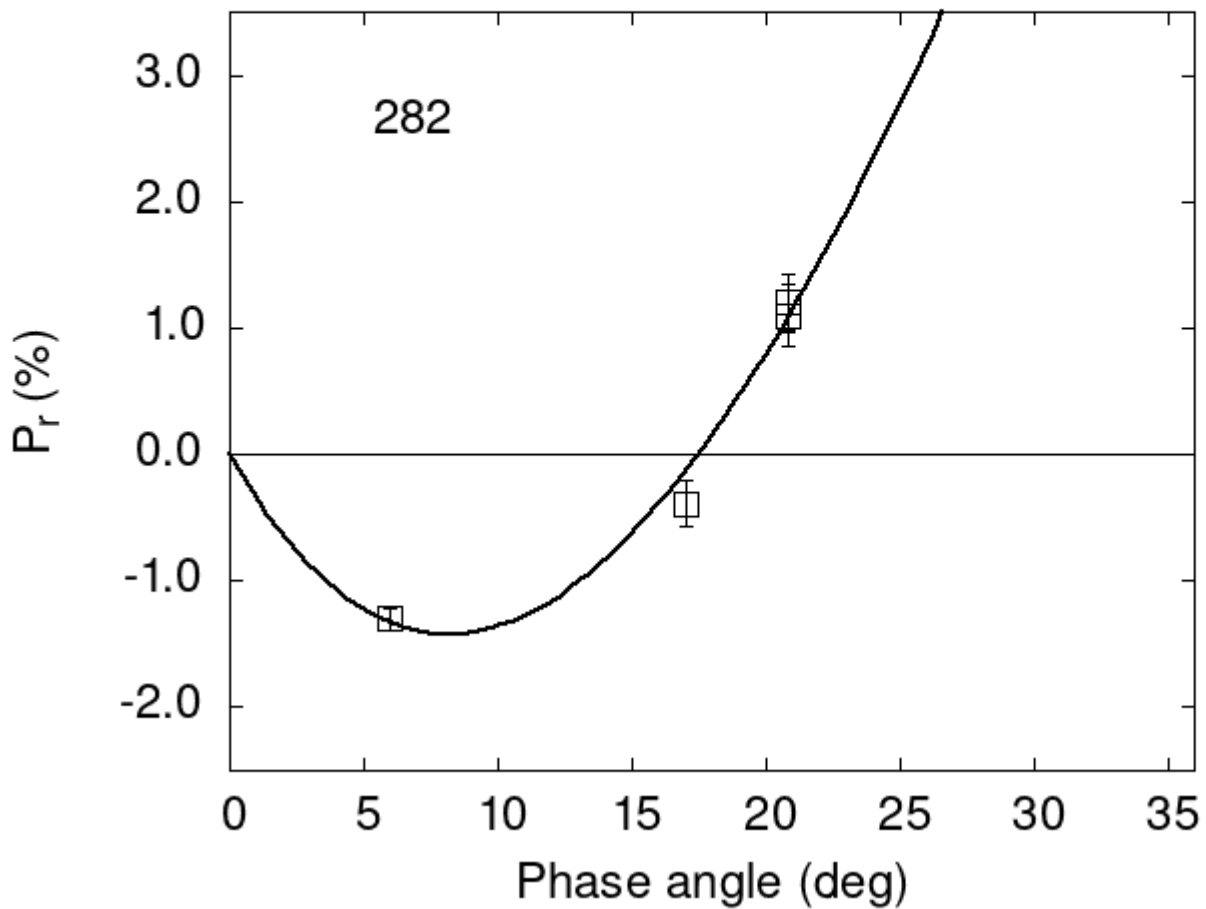


# Catalogue of Asteroid Polarization Curves

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.

282	20.86	1.20	0.23	V	f
282	20.86	1.10	0.25	R	f
282	17.00	-0.39	0.18	V	a
282	20.86	1.20	0.22	V	b
282	20.86	1.10	0.25	R	b
282	6.00	-1.30	0.09	V	h

## 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
# 25.9201  0.9982  21.7838  0.9440  0.8177  0.0254
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      8.17  1.23 -1.425  0.474 17.50 0.14 0.2848 0.0330
```