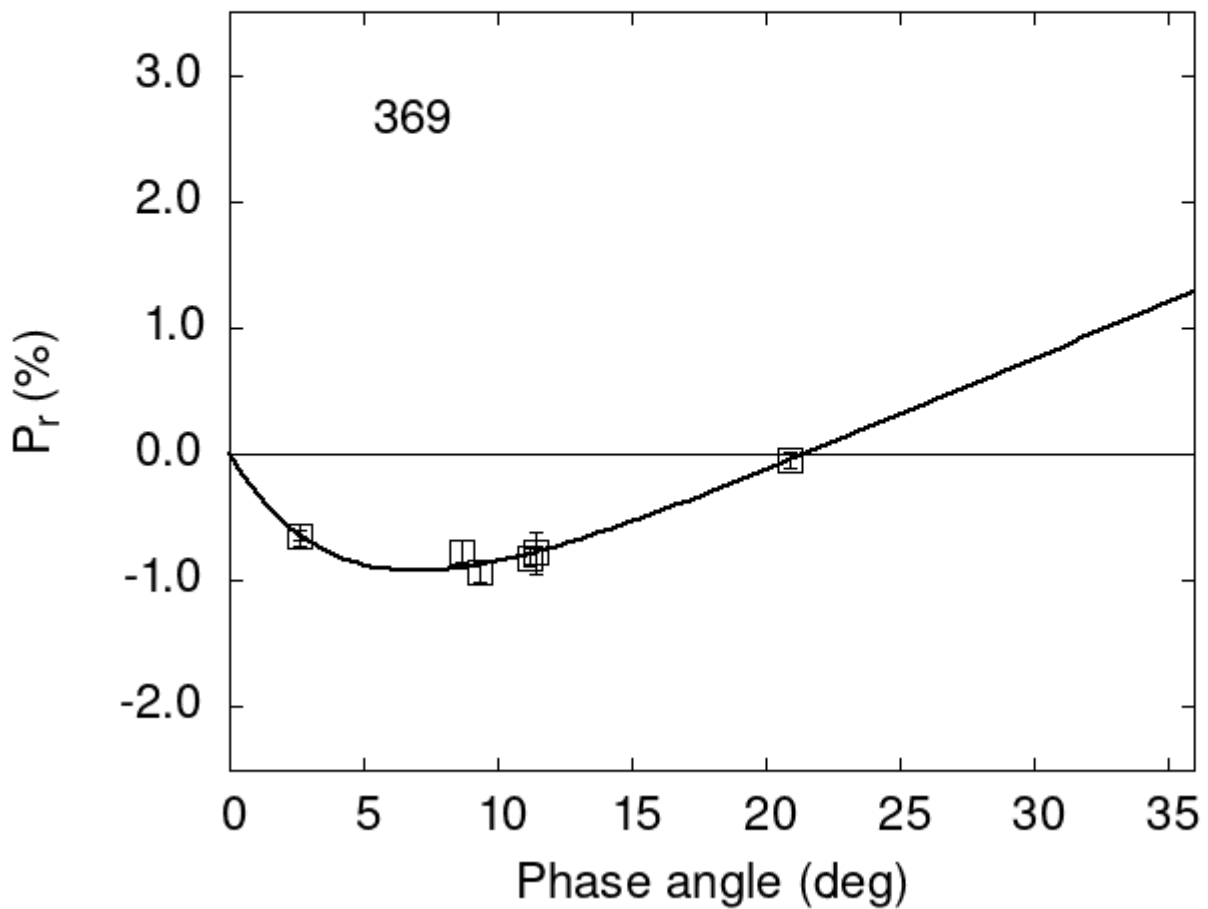


# Catalogue of Asteroid Polarization Curves

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.

369	11.20	-0.82	0.07	V	d
369	20.90	-0.05	0.06	R	d
369	8.64	-0.77	0.09	V	f
369	2.60	-0.64	0.04	V	a
369	2.60	-0.64	0.08	R	a
369	9.30	-0.93	0.08	V	a

369 11.40 -0.78 0.17 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
#   1.9462  0.3522  4.3927  0.8509  0.0898  0.0165
#
#   Phmin  err  Pmin   err  Ph0   err  k     err
#   7.01  1.24 -0.922  0.327 21.51  0.46 0.0865 0.0167
```