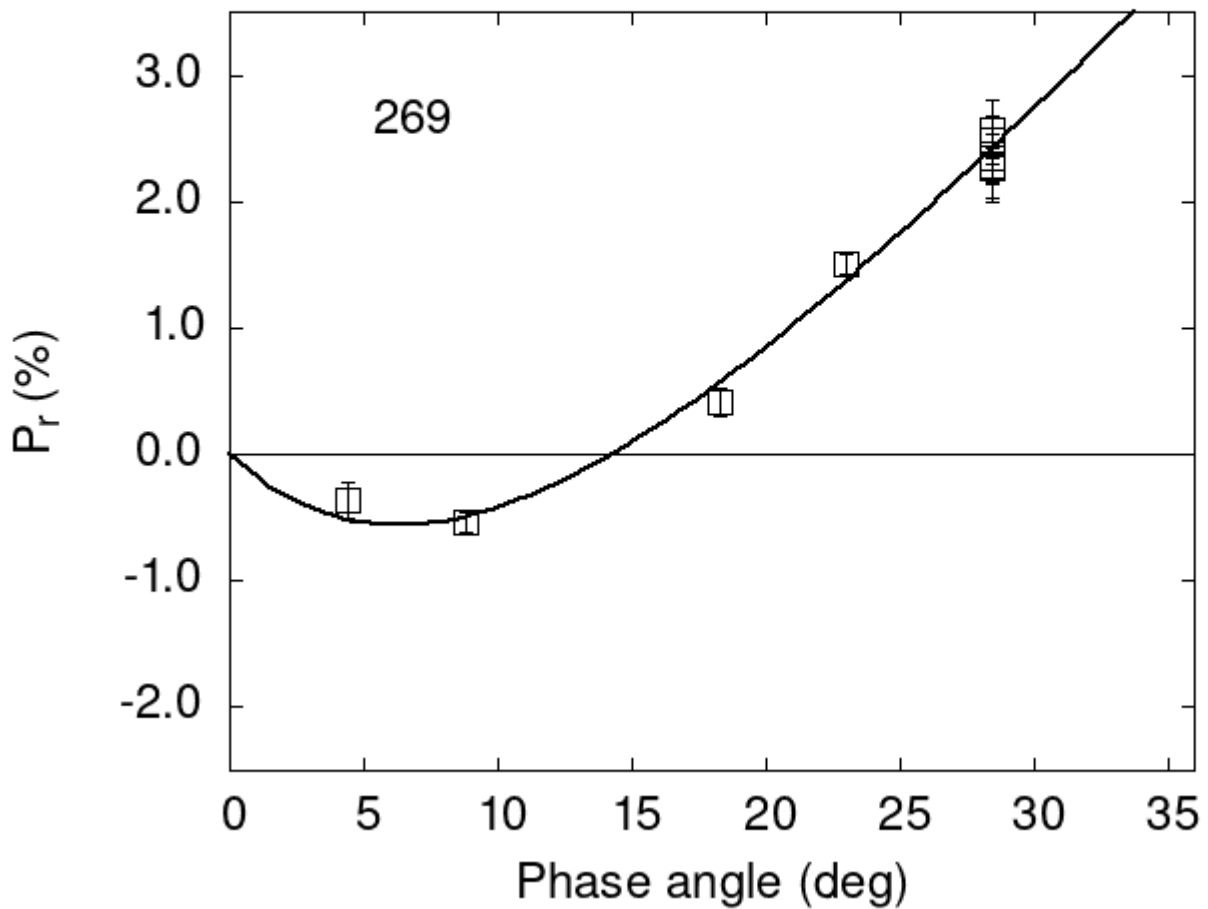


# Catalogue of Asteroid Polarization Curves

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.

269	28.49	2.28	0.26	V	a
269	28.49	2.28	0.14	R	a
269	28.48	2.49	0.19	V	a
269	28.48	2.27	0.27	R	a
269	28.42	2.57	0.23	V	a
269	28.42	2.34	0.19	R	a

```

269 23.00  1.50 0.08 V a
269  8.80 -0.53 0.08 V a
269 18.30  0.41 0.11 V a
269  4.40 -0.36 0.14 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
#      4.2196    0.9220    9.9843    2.2262    0.2246    0.0273
#
#      Phmin    err    Pmin    err    Ph0    err    k      err
#      6.31    2.63 -0.560  0.562 14.30  0.32 0.1236 0.0364

```