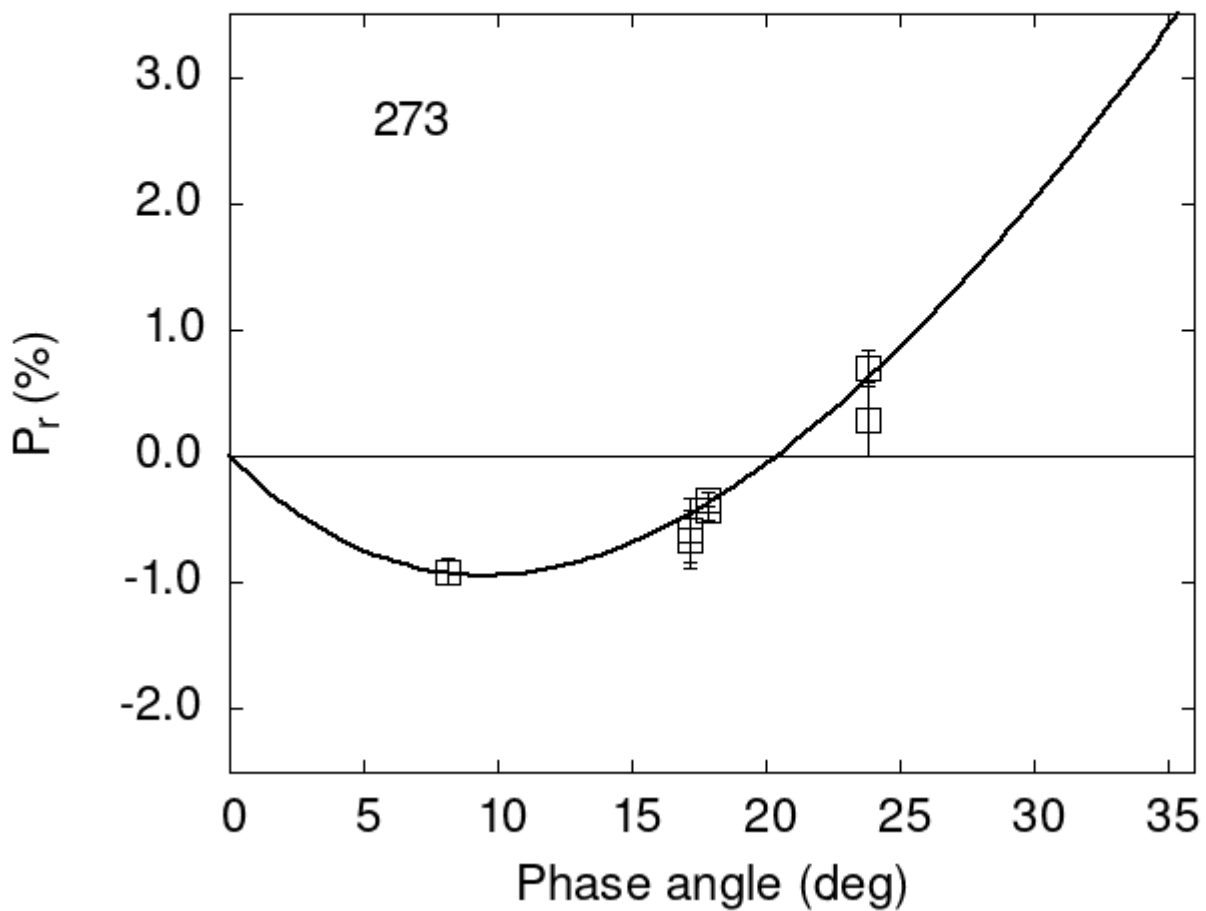


# Catalogue of Asteroid Polarization Curves

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.

```
273  8.14 -0.91 0.10 V f
273 17.87 -0.42 0.09 V f
273 23.86  0.29 0.29 V f
273 23.86  0.70 0.14 R f
273 17.87 -0.34 0.06 V a
273 23.86  0.29 0.29 V b
```

273 23.86 0.70 0.14 R b  
 273 17.16 -0.58 0.25 V b  
 273 17.16 -0.66 0.23 R b

## 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
# 16.3511  0.7981 24.6815  1.5150  0.4505  0.0177
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.52  1.80 -0.944  0.403 20.42  0.25 0.1609 0.0228
```