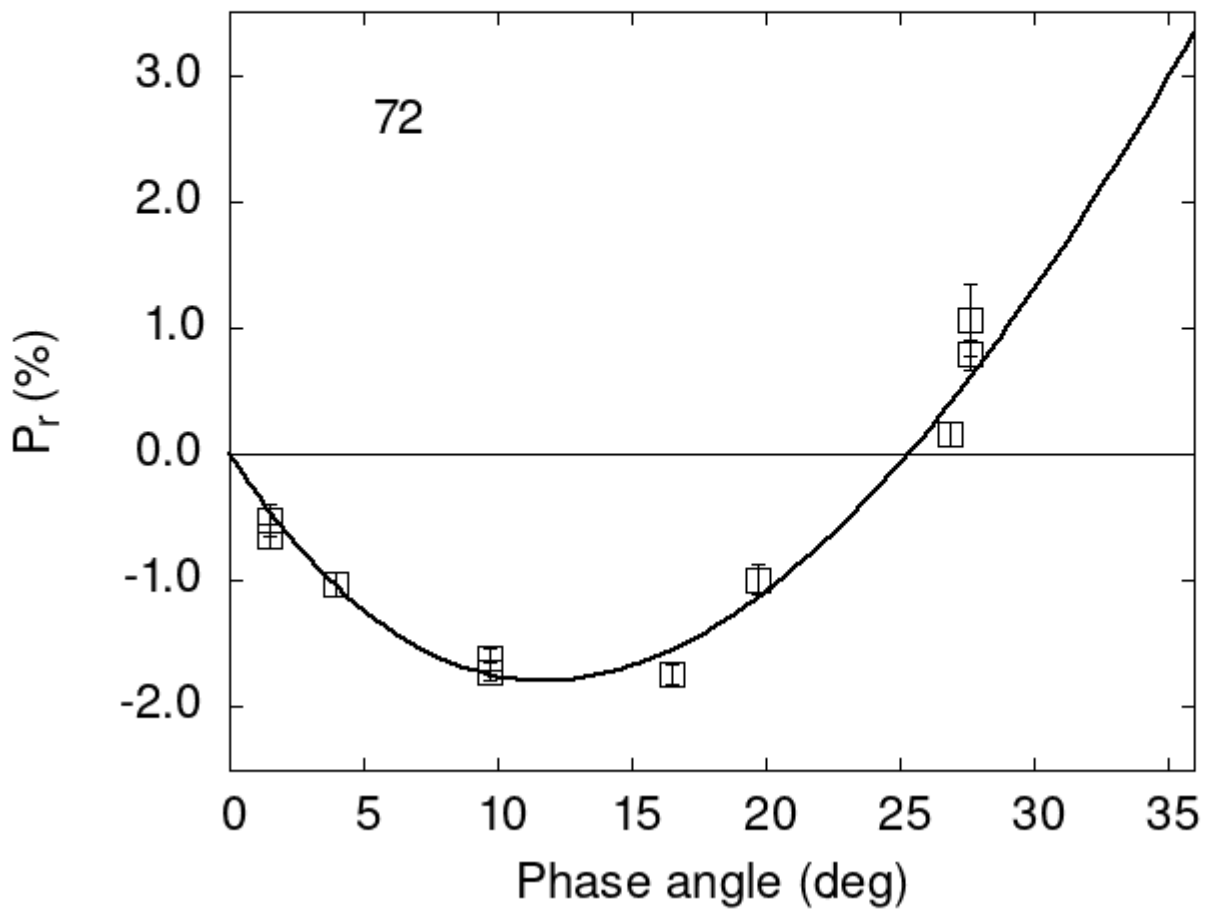


# Catalogue of Asteroid Polarization Curves

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.

72	3.98	-1.03	0.09	V	f
72	16.51	-1.74	0.08	V	f
72	26.86	0.16	0.10	V	f
72	1.50	-0.65	0.10	V	a
72	1.50	-0.52	0.12	R	a
72	9.70	-1.62	0.09	V	a

```

72  9.70 -1.72 0.07 R a
72 19.70 -0.99 0.12 V a
72 27.60  0.79 0.12 V h
72 27.60  1.06 0.29 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
# 28.3326  1.1344 28.9116  0.8896  0.6527  0.0167
#
#      Phmin  err  Pmin  err  Ph0  err  k      err
# 11.75  1.47 -1.793  0.488 25.33  0.16 0.2446 0.0234

```