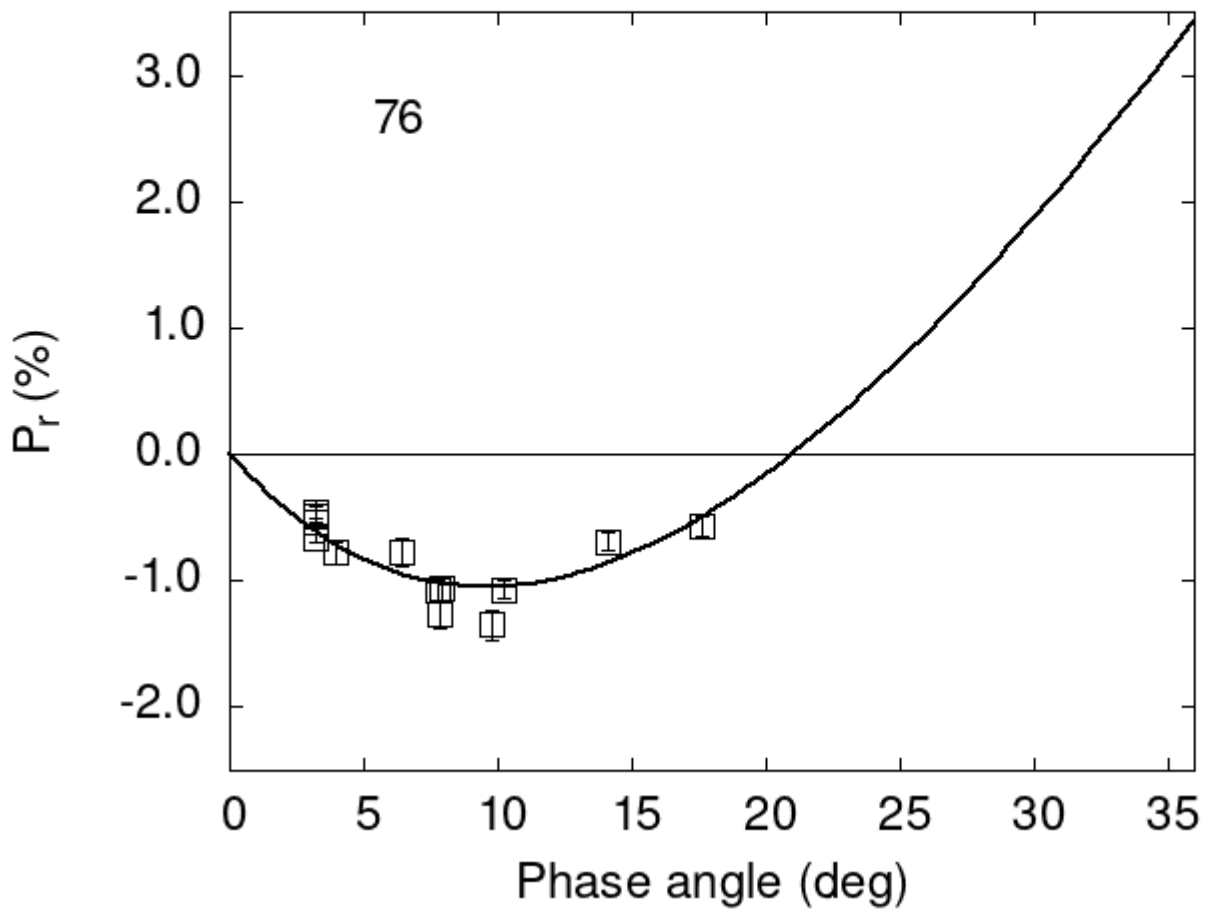


# Catalogue of Asteroid Polarization Curves

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.

76	3.23	-0.45	0.08	V	f
76	3.23	-0.49	0.08	R	f
76	3.98	-0.78	0.09	V	f
76	7.78	-1.07	0.08	V	f
76	7.82	-1.27	0.11	V	f
76	17.61	-0.57	0.08	V	f

```

76 6.40 -0.78 0.11 V a
76 9.80 -1.35 0.12 V a
76 14.10 -0.69 0.07 V a
76 7.90 -1.06 0.09 V a
76 3.23 -0.54 0.04 V a
76 3.23 -0.66 0.03 R a
76 10.20 -1.07 0.07 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
# 11.5494  0.4122  19.0287  0.6127  0.3674  0.0124
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.55  0.98 -1.049  0.231 21.02  0.24 0.1663 0.0144

```