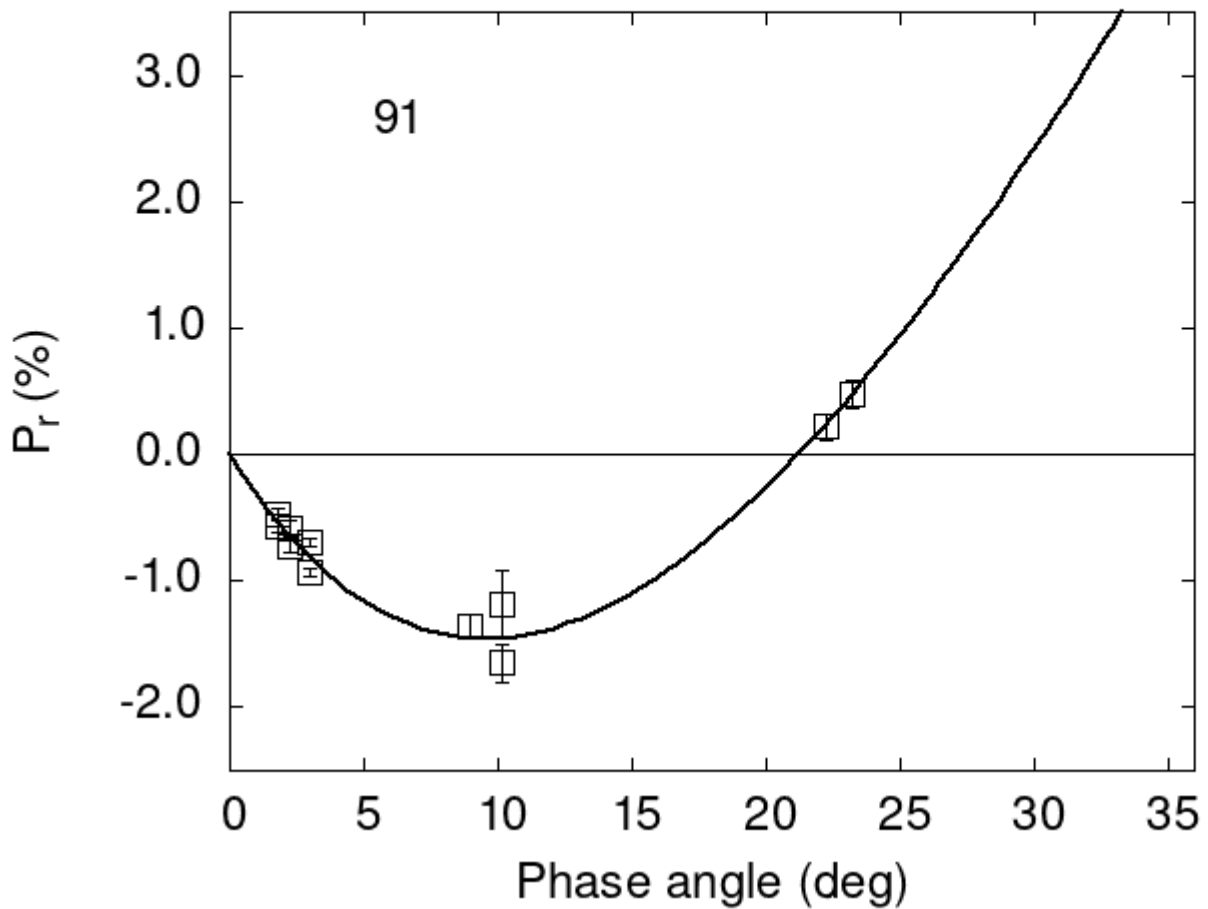


# Catalogue of Asteroid Polarization Curves

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.

91	8.94	-1.36	0.09	V	f
91	22.26	0.22	0.10	V	f
91	23.21	0.48	0.11	V	f
91	1.79	-0.57	0.05	V	f
91	1.79	-0.47	0.05	R	f
91	2.25	-0.72	0.05	V	f

```

91  2.25 -0.58 0.06 R f
91 10.19 -1.18 0.26 V f
91 10.19 -1.65 0.15 R f
91  3.00 -0.70 0.03 V a
91  3.00 -0.93 0.03 R a
91 10.19 -1.18 0.26 V b
91 10.19 -1.65 0.15 R b
91  1.79 -0.57 0.05 V b
91  1.79 -0.47 0.05 R b
91  2.25 -0.72 0.05 V b
91  2.25 -0.58 0.06 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
# 13.6717  0.8706 17.2520  0.8339  0.4556  0.0188
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
# 9.55  1.36 -1.461  0.462 21.24 0.18 0.2242 0.0240

```