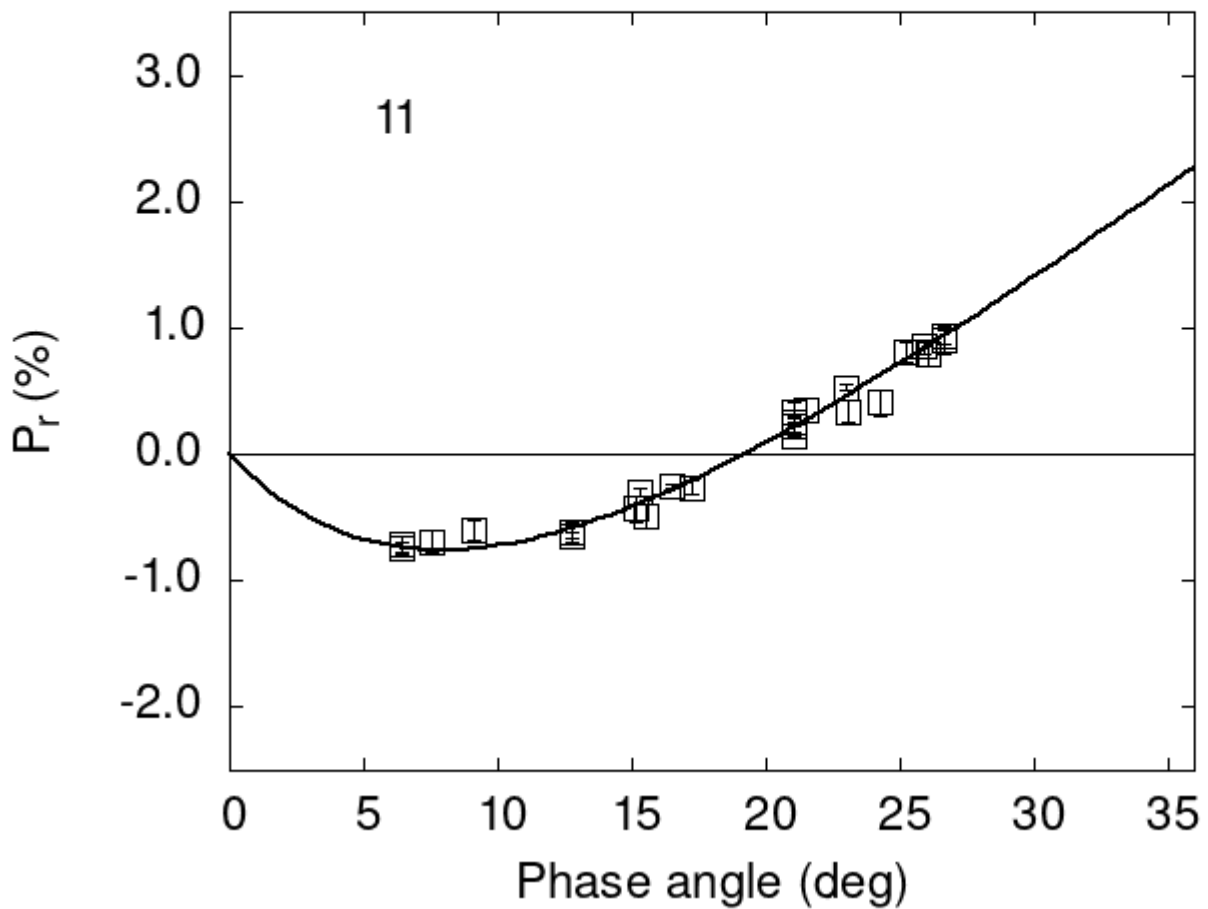


# Catalogue of Asteroid Polarization Curves

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.

11	9.12	-0.60	0.08	V	f
11	12.75	-0.62	0.08	V	f
11	15.19	-0.43	0.10	V	f
11	15.57	-0.49	0.09	V	f
11	21.08	0.33	0.08	V	f
11	21.08	0.23	0.08	R	f

```

11 21.51 0.35 0.09 V f
11 23.09 0.34 0.09 V f
11 24.26 0.41 0.10 V f
11 26.07 0.79 0.09 V f
11 7.51 -0.69 0.09 G a
11 25.25 0.81 0.08 G a
11 25.95 0.85 0.06 G a
11 22.99 0.53 0.03 G a
11 17.23 -0.26 0.05 G a
11 16.51 -0.25 0.02 G a
11 6.40 -0.74 0.05 V a
11 6.40 -0.71 0.06 R a
11 26.70 0.93 0.06 V a
11 26.70 0.90 0.11 R a
11 21.08 0.25 0.03 V a
11 21.08 0.15 0.02 R a
11 12.75 -0.64 0.02 V a
11 15.30 -0.30 0.03 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
#      3.3441    0.2966    8.8299    0.8194    0.1543    0.0093
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      7.93    0.95 -0.758    0.222 19.21    0.36 0.1113 0.0111

```