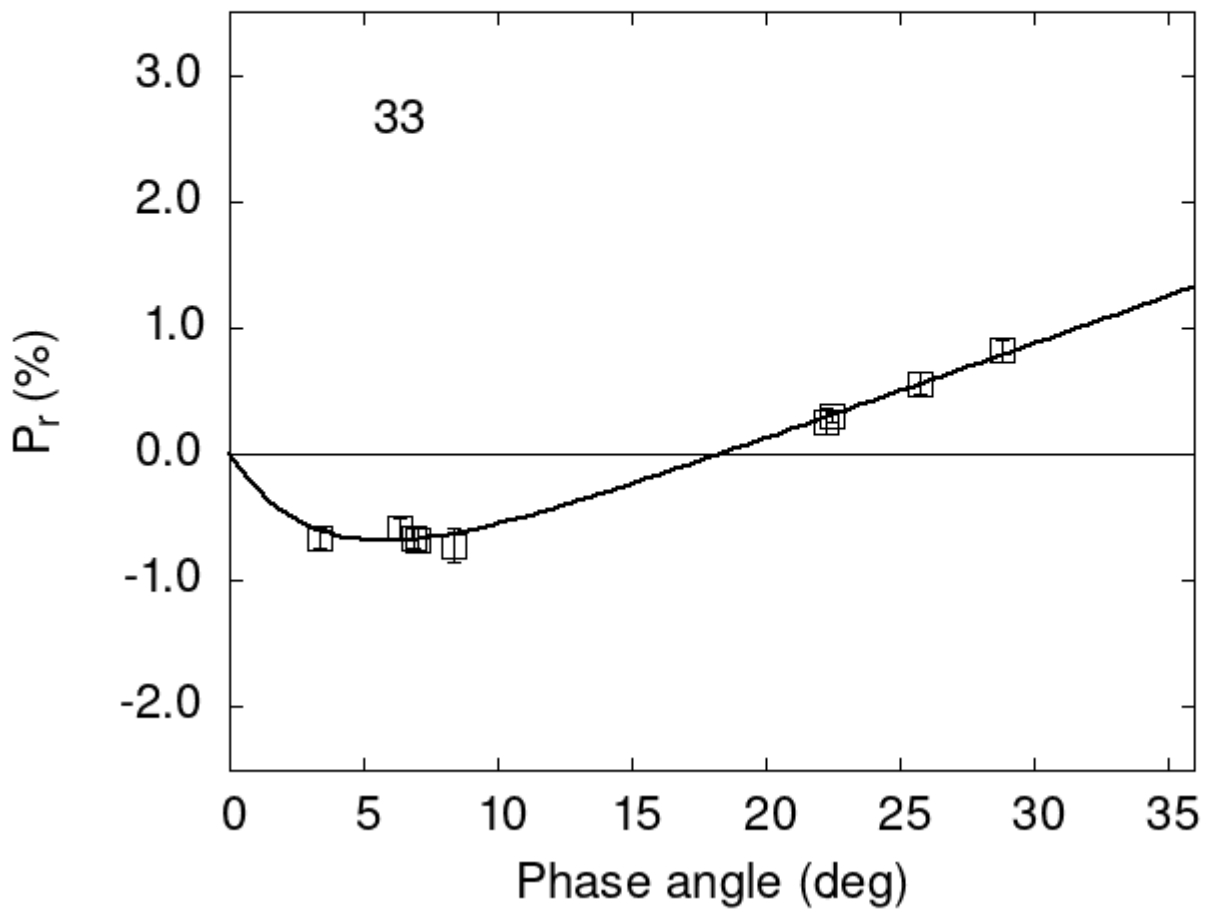


# Catalogue of Asteroid Polarization Curves

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.

33	3.39	-0.66	0.08	V	f
33	6.32	-0.59	0.08	V	f
33	6.87	-0.66	0.08	V	f
33	7.00	-0.68	0.09	V	f
33	8.40	-0.72	0.14	V	f
33	22.27	0.26	0.10	V	f

```

33 25.80 0.56 0.09 V f
33 28.82 0.82 0.09 V f
33 22.50 0.30 0.04 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
#      1.3844    0.2425    3.5125    1.0990    0.0751    0.0097
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      5.82    1.05 -0.683    0.246  18.32  0.55 0.0730 0.0101

```