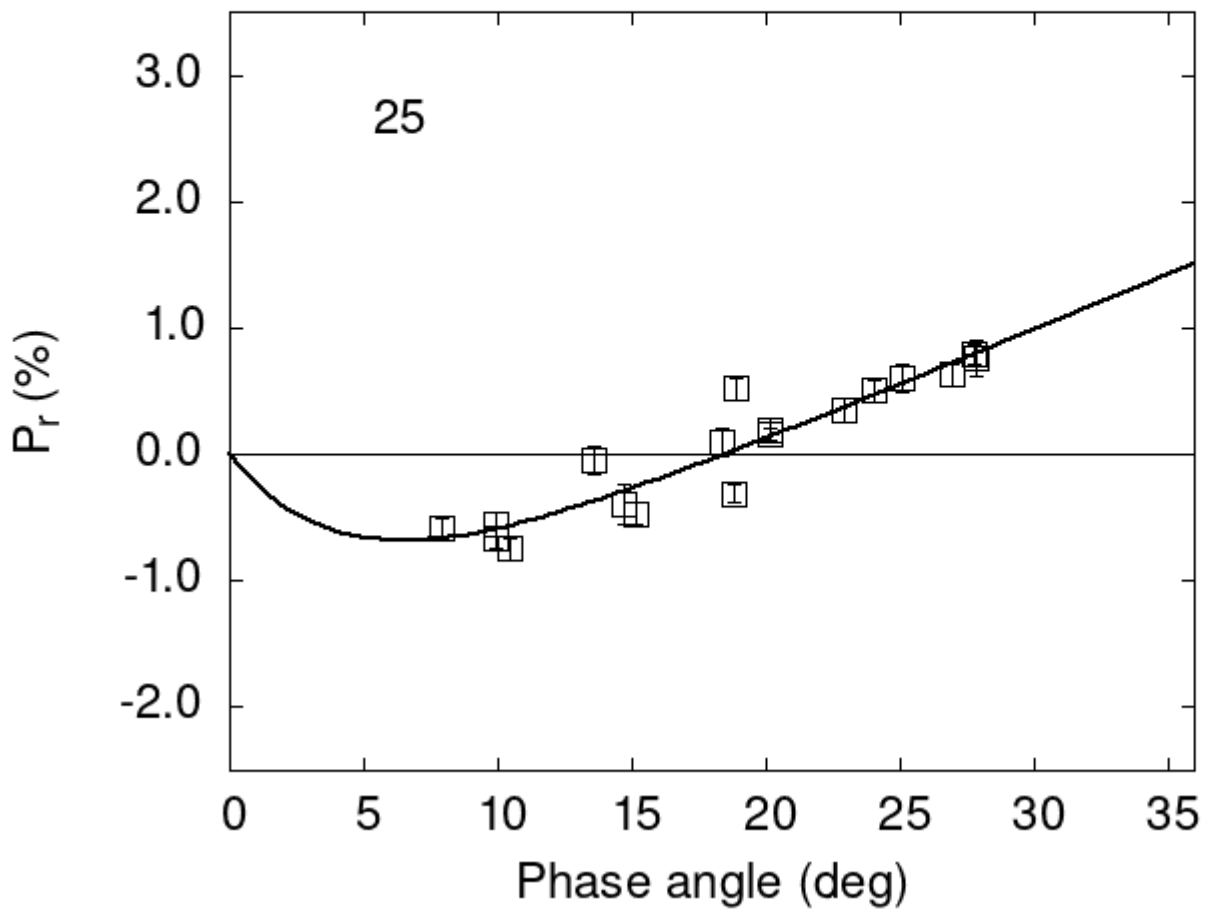


# Catalogue of Asteroid Polarization Curves

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.

25	10.44	-0.75	0.09	V	f
25	13.61	-0.05	0.11	V	f
25	14.74	-0.40	0.16	V	f
25	15.14	-0.47	0.09	V	f
25	20.15	0.19	0.09	R	f
25	22.96	0.35	0.09	V	f

```

25 24.03 0.50 0.09 V f
25 25.09 0.60 0.11 V f
25 26.99 0.63 0.09 V f
25 27.80 0.79 0.08 V f
25 27.87 0.76 0.14 V f
25 18.90 0.52 0.09 V a
25 18.80 -0.31 0.07 V a
25 9.90 -0.55 0.09 V a
25 9.90 -0.67 0.08 R a
25 7.90 -0.58 0.07 V a
25 20.15 0.16 0.04 R a
25 18.40 0.09 0.11 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
#      1.6537    0.2733    4.5882    1.5823    0.0878    0.0104
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      6.48    1.14 -0.682  0.293  18.50  0.49  0.0814  0.0124

```