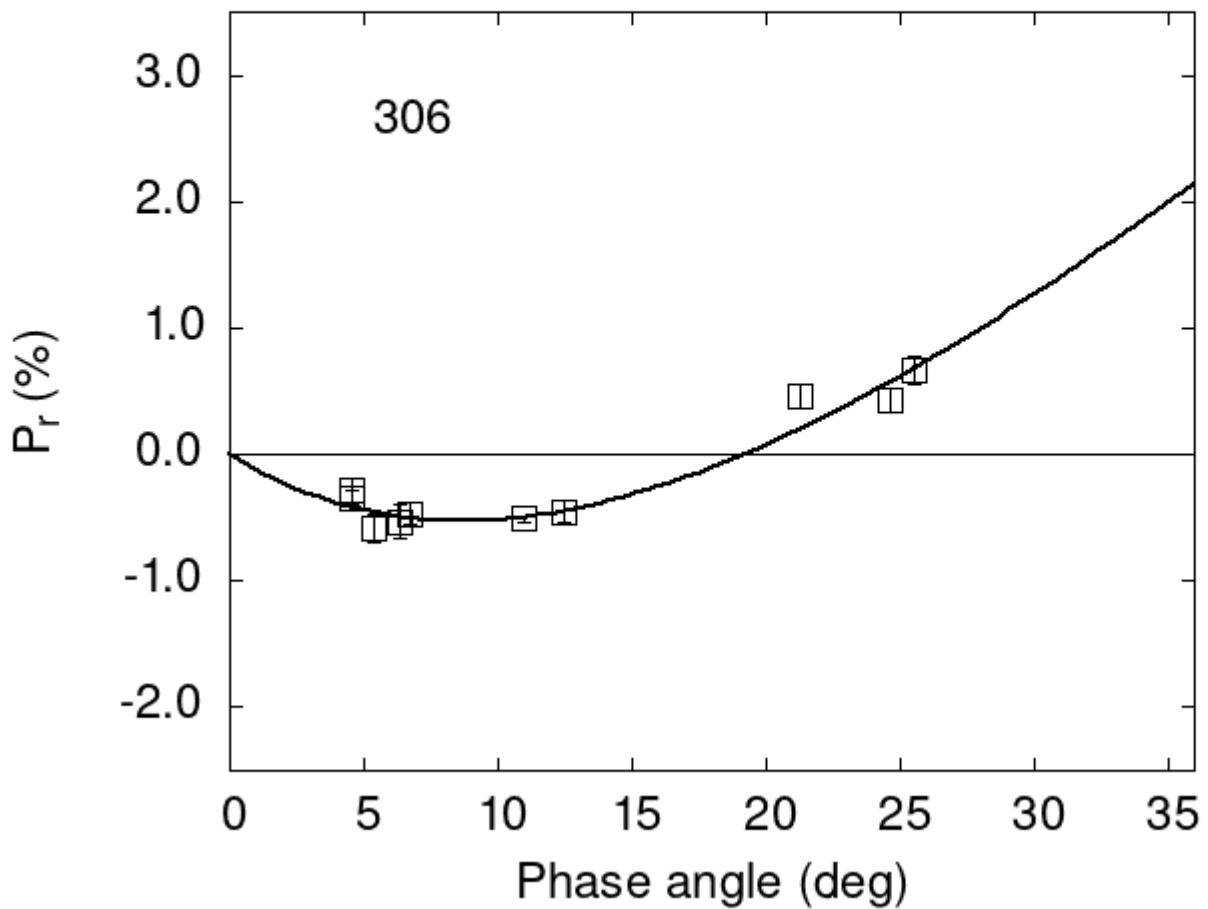


# Catalogue of Asteroid Polarization Curves

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.

306	4.59	-0.29	0.10	V	f
306	5.39	-0.58	0.11	V	f
306	6.38	-0.53	0.14	V	f
306	6.75	-0.47	0.09	V	f
306	12.48	-0.45	0.09	V	f
306	21.27	0.46	0.09	V	f

```

306 24.68 0.43 0.09 V f
306 25.57 0.66 0.11 V f
306 11.00 -0.51 0.02 V f
306 4.59 -0.35 0.06 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
#      5.2776    0.2082    16.3426    0.7300    0.1898    0.0058
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      8.69    0.89 -0.527    0.124 19.23    0.44 0.0902 0.0071

```