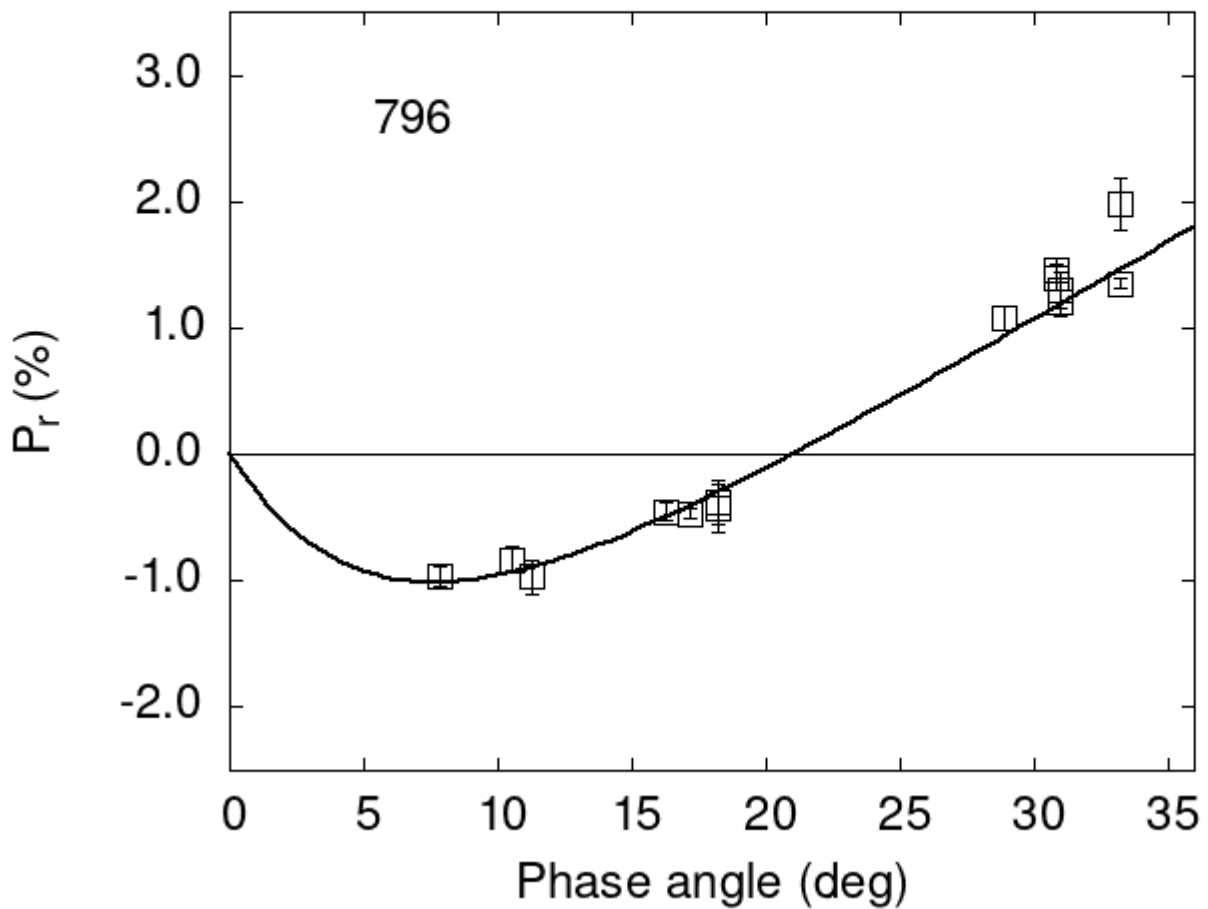


# Catalogue of Asteroid Polarization Curves

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.

796	7.87	-0.97	0.08	V	f
796	10.54	-0.83	0.10	V	f
796	28.91	1.08	0.09	V	f
796	18.20	-0.42	0.19	V	f
796	18.20	-0.38	0.17	R	f
796	30.85	1.46	0.10	V	f

```

796 30.85  1.40 0.10 R f
796 31.00  1.30 0.14 V f
796 31.00  1.20 0.10 R f
796 33.25  1.35 0.04 V f
796 33.25  1.98 0.20 R f
796 11.30 -0.97 0.13 V a
796 16.30 -0.45 0.07 V a
796 17.20 -0.47 0.04 V a
796 30.85  1.46 0.10 V b
796 30.85  1.40 0.10 R b
796 31.00  1.30 0.14 V b
796 31.00  1.20 0.10 R b
796 33.25  1.35 0.04 V b
796 33.25  1.98 0.20 R b
796 18.20 -0.42 0.19 V b
796 18.20 -0.38 0.17 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
#      2.6895      0.3348      5.8292      1.3573      0.1245      0.0096
#
#      Phmin      err      Pmin      err      Ph0      err      k      err
#      7.64      0.95 -1.013      0.338      21.01      0.36      0.1119      0.0123

```