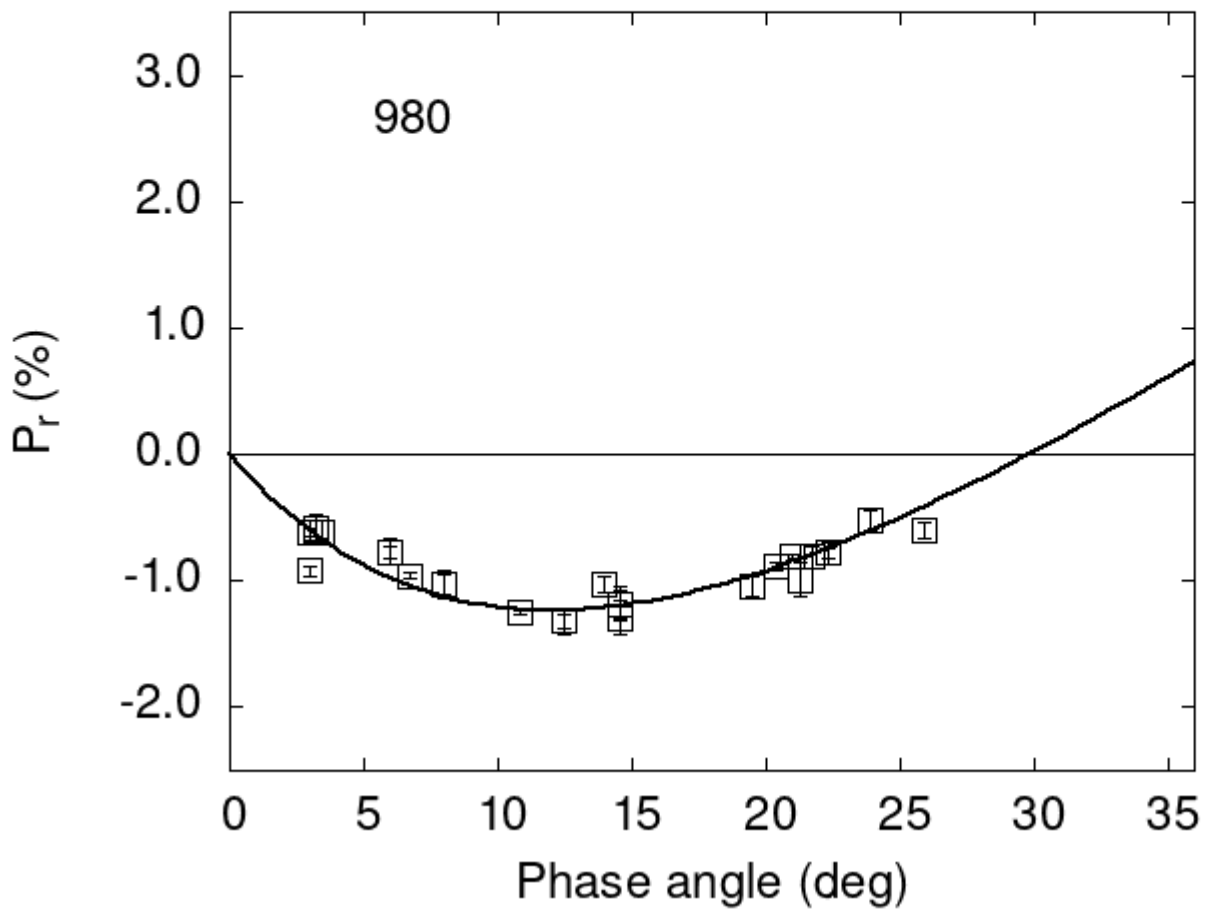


# Catalogue of Asteroid Polarization Curves

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.

980	3.02	-0.61	0.09	V	f
980	3.22	-0.58	0.11	V	f
980	3.40	-0.61	0.09	V	f
980	6.01	-0.77	0.10	V	f
980	7.98	-1.03	0.11	V	f
980	12.48	-1.32	0.10	V	f

```

980 14.54 -1.18 0.13 V f
980 14.55 -1.29 0.14 V f
980 19.47 -1.04 0.08 V f
980 21.27 -0.99 0.14 V f
980 21.77 -0.81 0.09 V f
980 22.30 -0.78 0.09 V f
980 23.92 -0.52 0.08 V f
980 6.70 -0.96 0.02 V a
980 10.80 -1.25 0.01 V a
980 21.00 -0.81 0.02 V a
980 25.90 -0.60 0.07 V a
980 14.00 -1.03 0.06 V a
980 20.40 -0.89 0.03 V a
980 3.02 -0.61 0.03 V a
980 3.00 -0.92 0.04 V a
980 6.01 -0.77 0.05 V a
980 7.98 -1.03 0.08 V a
980 12.48 -1.32 0.06 V a
980 14.54 -1.18 0.11 V a
980 22.30 -0.78 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
#      4.7325    0.3883    12.1096    0.7865     0.1450    0.0109
#
#      Phmin    err    Pmin    err    Ph0    err    k      err
#      12.00    1.35 -1.235    0.299  29.85    0.36  0.1118  0.0117

```