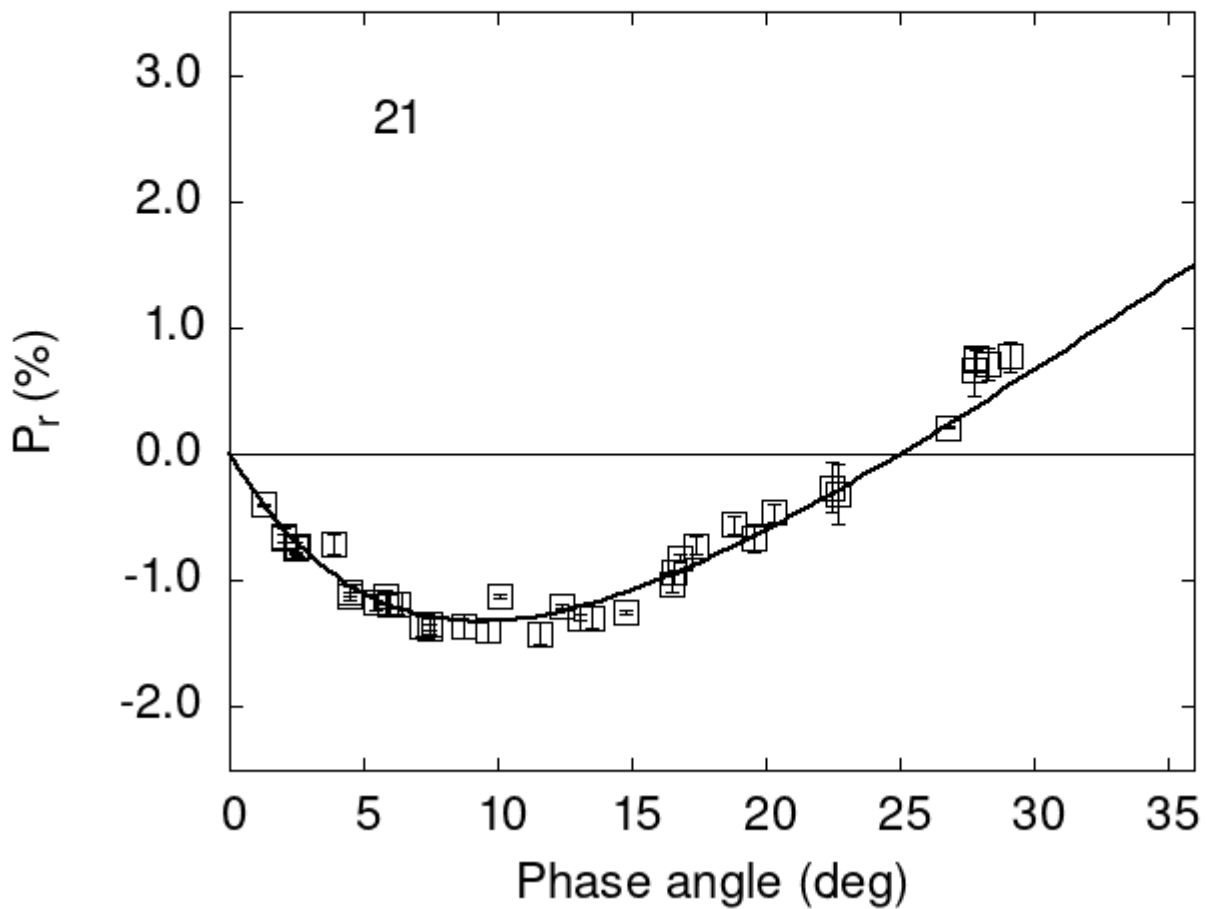


# Catalogue of Asteroid Polarization Curves

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.

21	2.51	-0.73	0.08	V	f
21	3.89	-0.71	0.08	V	f
21	7.18	-1.36	0.08	V	f
21	9.66	-1.39	0.09	V	f
21	11.59	-1.42	0.09	V	f
21	13.49	-1.29	0.09	V	f

```

21 16.57 -0.93 0.09 V f
21 19.57 -0.67 0.11 V f
21 22.69 -0.31 0.24 G a
21 22.47 -0.26 0.20 G a
21 5.95 -1.19 0.08 G a
21 16.47 -1.02 0.07 G a
21 27.79 0.66 0.20 G a
21 28.32 0.71 0.13 G a
21 29.12 0.77 0.12 G a
21 7.50 -1.34 0.05 V a
21 7.50 -1.38 0.04 R a
21 1.30 -0.40 0.01 V a
21 26.80 0.21 0.01 V a
21 10.10 -1.12 0.02 V a
21 8.75 -1.36 0.09 V a
21 2.05 -0.64 0.06 V a
21 2.05 -0.66 0.03 R a
21 2.43 -0.72 0.07 V a
21 2.43 -0.74 0.04 R a
21 18.80 -0.56 0.07 V a
21 20.30 -0.46 0.07 V a
21 4.50 -1.09 0.04 V a
21 4.50 -1.12 0.03 R a
21 17.38 -0.72 0.07 V a
21 17.40 -0.72 0.07 V a
21 27.87 0.76 0.09 V a
21 27.87 0.74 0.08 R a
21 14.80 -1.25 0.02 V a
21 13.10 -1.29 0.02 V a
21 5.46 -1.17 0.06 R a
21 5.86 -1.13 0.05 R a
21 6.26 -1.18 0.09 R a
21 16.80 -0.82 0.03 V a
21 12.40 -1.20 0.02 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
#      3.8091      0.1143      7.6280      0.2646      0.1464      0.0038
#

```

#	Phmin	err	Pmin	err	Ph0	err	k	err
#	9.36	0.31	-1.323	0.100	25.05	0.31	0.1276	0.0041