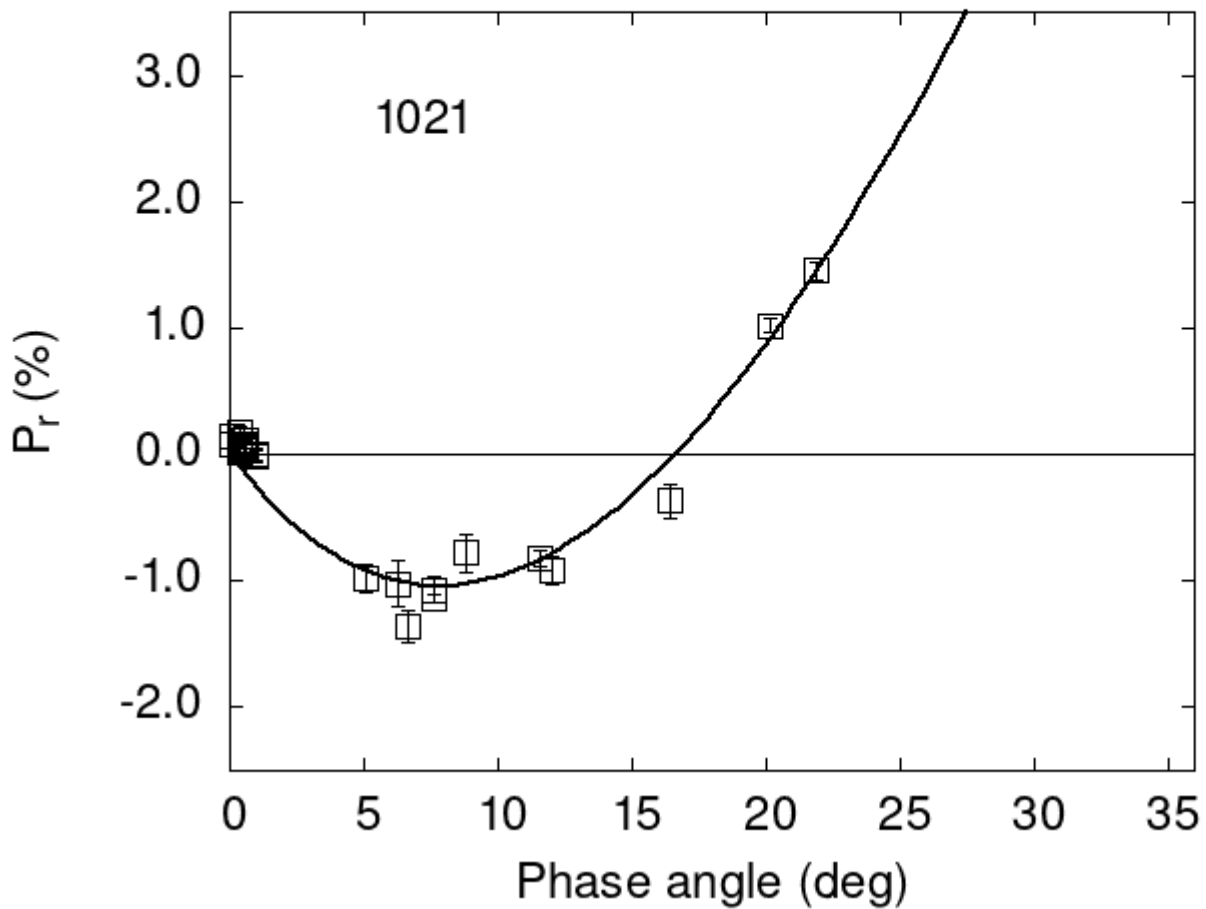


Catalogue of Asteroid Polarization Curves

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.

1021	5.07	-0.98	0.11	V	f
1021	6.28	-1.02	0.18	V	f
1021	6.65	-1.36	0.12	V	f
1021	7.59	-1.07	0.10	V	f
1021	8.79	-0.78	0.15	V	f
1021	16.40	-0.37	0.13	V	a

```

1021 0.60 0.04 0.04 V a
1021 0.60 0.08 0.06 R a
1021 0.50 0.03 0.05 V a
1021 0.50 0.07 0.05 R a
1021 0.10 0.08 0.05 V a
1021 0.10 0.15 0.05 R a
1021 0.40 0.18 0.05 V a
1021 0.40 0.01 0.05 R a
1021 0.60 0.05 0.05 V a
1021 0.60 0.11 0.06 R a
1021 1.00 0.00 0.05 V a
1021 1.00 -0.01 0.05 R a
1021 20.20 1.02 0.06 V a
1021 7.60 -1.14 0.03 V a
1021 12.00 -0.91 0.11 V a
1021 21.90 1.45 0.07 V a
1021 11.60 -0.82 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 α 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
# 23.1135  0.9039  23.3442  0.6336  0.7081  0.0173
#
#      Phmin   err   Pmin   err   Ph0   err   k       err
#      7.83  1.16 -1.042  0.327 16.62  0.18 0.2223 0.0259

```