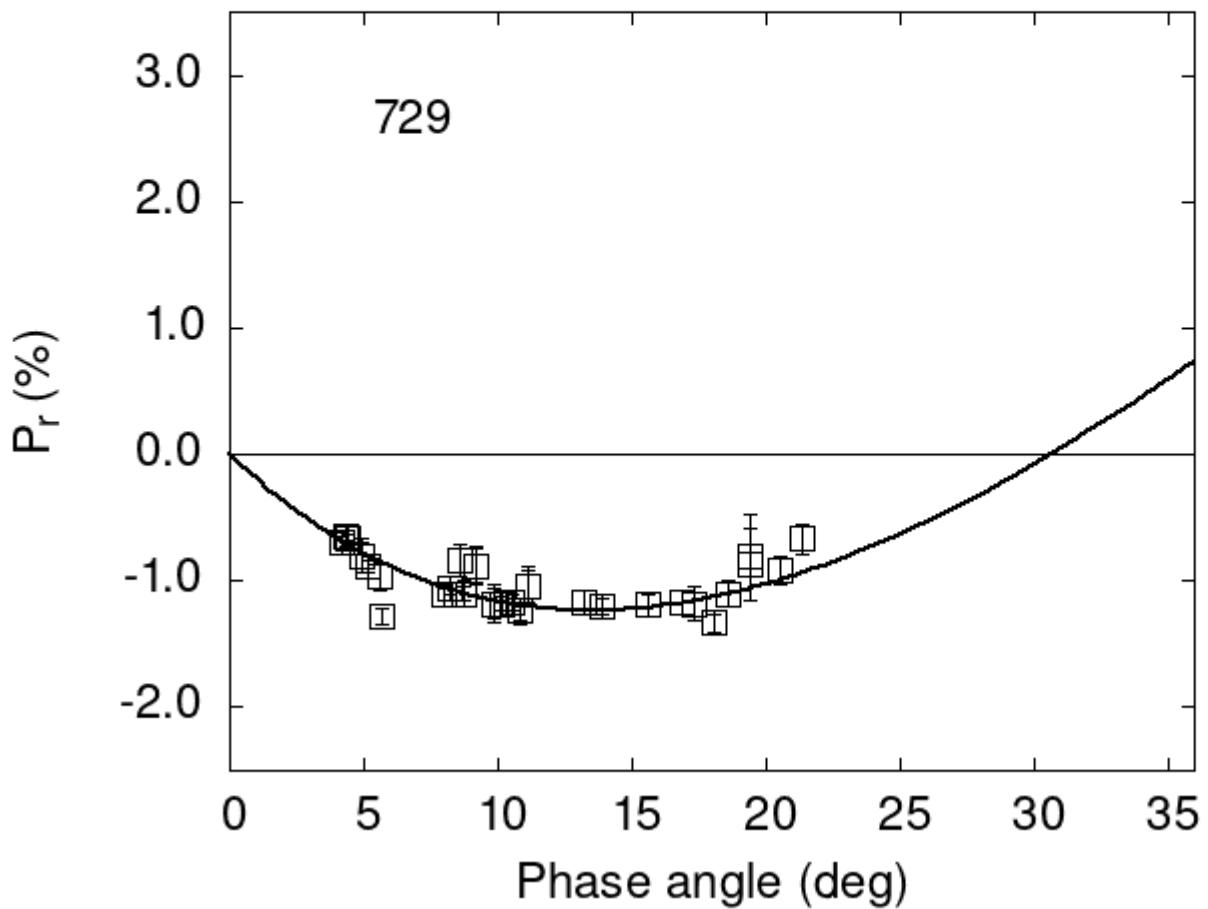


Catalogue of Asteroid Polarization Curves

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.

729	4.21	-0.70	0.09	V	f
729	4.35	-0.64	0.09	V	f
729	4.37	-0.66	0.09	V	f
729	4.96	-0.80	0.13	V	f
729	5.17	-0.89	0.09	V	f
729	7.99	-1.11	0.09	V	f

729	8.22	-1.06	0.09	V	f
729	8.56	-0.84	0.13	V	f
729	8.72	-1.10	0.10	V	f
729	9.21	-0.88	0.15	V	f
729	9.86	-1.18	0.15	V	f
729	10.18	-1.18	0.10	V	f
729	10.50	-1.17	0.10	V	f
729	10.82	-1.24	0.10	V	f
729	11.14	-1.04	0.16	V	f
729	13.22	-1.17	0.09	V	f
729	13.86	-1.20	0.10	V	f
729	15.61	-1.19	0.09	V	f
729	16.89	-1.17	0.09	V	f
729	17.33	-1.18	0.14	V	f
729	18.10	-1.33	0.10	V	f
729	18.60	-1.10	0.10	V	f
729	20.51	-0.91	0.11	V	f
729	21.33	-0.67	0.12	V	f
729	19.39	-0.87	0.28	V	a
729	19.39	-0.81	0.34	R	a
729	5.60	-0.97	0.11	V	a
729	5.70	-1.28	0.07	V	a
729	18.10	-1.33	0.07	V	a
729	13.86	-1.20	0.06	V	a
729	11.14	-1.04	0.13	V	a
729	10.82	-1.24	0.07	V	a
729	10.50	-1.17	0.06	V	a
729	10.18	-1.18	0.06	V	a
729	9.86	-1.18	0.12	V	a
729	9.21	-0.88	0.13	V	a
729	8.56	-0.84	0.10	V	a
729	8.22	-1.06	0.05	V	a
729	5.17	-0.89	0.05	V	a
729	4.35	-0.64	0.04	V	a
729	4.21	-0.70	0.05	V	a
729	4.37	-0.66	0.03	V	a
729	4.96	-0.80	0.10	V	a
729	7.99	-1.11	0.05	V	a
729	8.72	-1.10	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
# 9.0640  0.2941  21.0258  0.6396  0.2267  0.0074
#
#   Phmin  err  Pmin   err  Ph0    err   k      err
# 13.52  0.99 -1.234  0.195 30.70  0.32 0.1266 0.0082
```