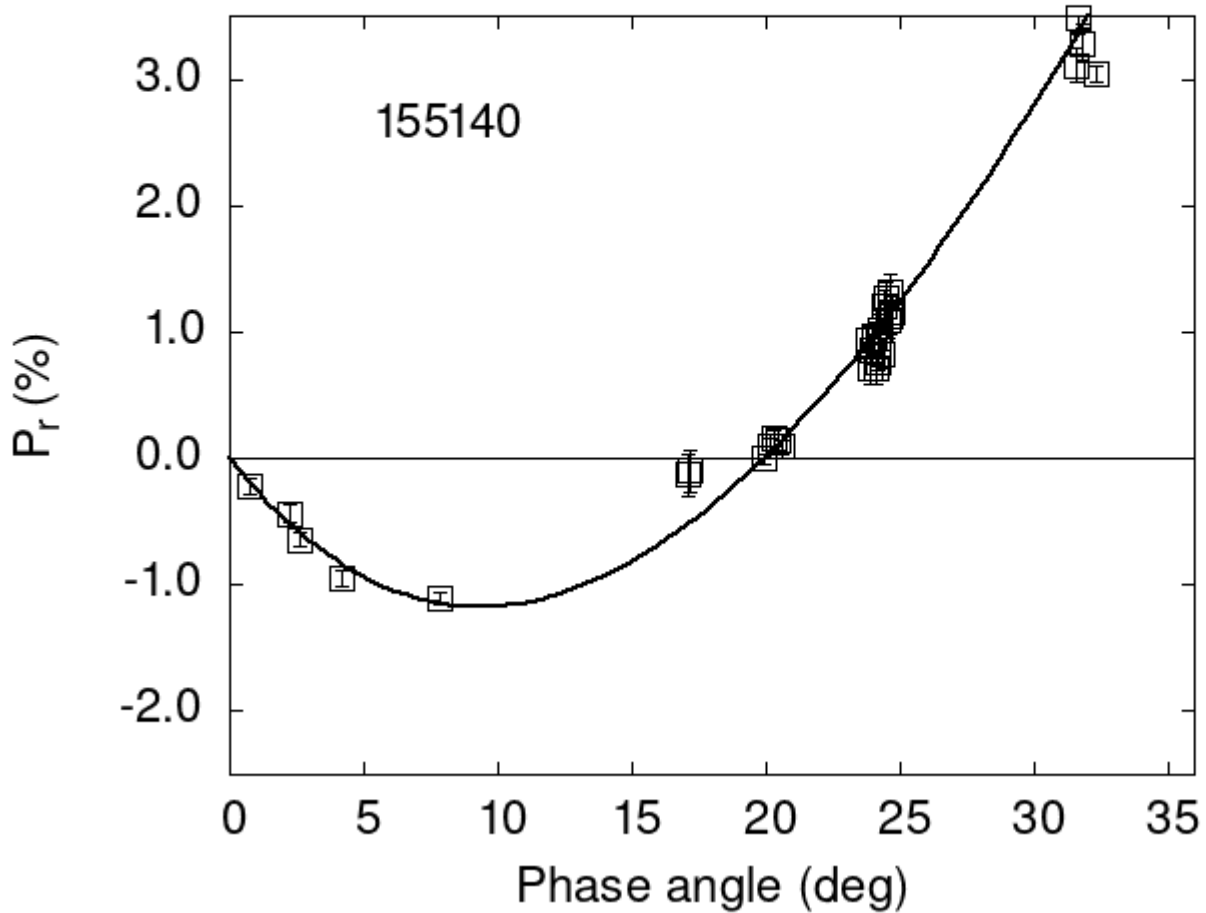


Catalogue of Asteroid Polarization Curves

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.

155140	87.71	31.92	0.78	V	a
155140	44.03	8.73	0.30	V	a
155140	39.52	6.23	0.06	V	a
155140	35.73	5.03	0.06	V	a
155140	32.51	3.62	0.07	V	a
155140	32.46	4.04	0.08	V	a

155140	32.37	3.77	0.07	V a
155140	32.32	3.04	0.07	V a
155140	32.24	3.56	0.13	V a
155140	32.19	3.64	0.13	V a
155140	32.06	3.70	0.13	V a
155140	31.97	3.53	0.13	V a
155140	31.92	3.85	0.15	V a
155140	31.83	3.28	0.15	V a
155140	31.79	3.28	0.13	V a
155140	31.70	3.59	0.13	V a
155140	31.65	3.48	0.13	V a
155140	31.57	3.11	0.14	V a
155140	31.52	3.66	0.15	V a
155140	24.73	1.16	0.13	V a
155140	24.68	1.31	0.14	V a
155140	24.61	1.13	0.15	V a
155140	24.56	1.09	0.14	V a
155140	24.48	1.27	0.13	V a
155140	24.43	1.20	0.13	V a
155140	24.36	0.83	0.12	V a
155140	24.31	1.02	0.12	V a
155140	24.22	0.95	0.13	V a
155140	24.20	0.76	0.07	V a
155140	24.17	0.88	0.14	V a
155140	24.10	0.71	0.13	V a
155140	24.05	0.95	0.12	V a
155140	23.96	0.86	0.11	V a
155140	23.91	0.72	0.13	V a
155140	23.83	0.93	0.13	V a
155140	20.59	0.09	0.05	V a
155140	20.46	0.14	0.10	V a
155140	20.31	0.16	0.06	V a
155140	20.14	0.10	0.06	V a
155140	19.96	0.00	0.04	V a
155140	17.15	-0.10	0.17	V a
155140	17.10	-0.13	0.17	V a
155140	2.58	-0.64	0.05	V a
155140	0.74	-0.22	0.07	V a
155140	2.25	-0.44	0.07	V a
155140	4.18	-0.95	0.06	V a
155140	7.83	-1.11	0.05	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  
# 22.1462  1.3616  25.3543  1.1491  0.6046  0.0196  
#  
#      Phmin    err    Pmin     err    Ph0     err    k       err  
#      9.33    1.91 -1.178  0.524  19.95  0.19  0.2070  0.0316
```