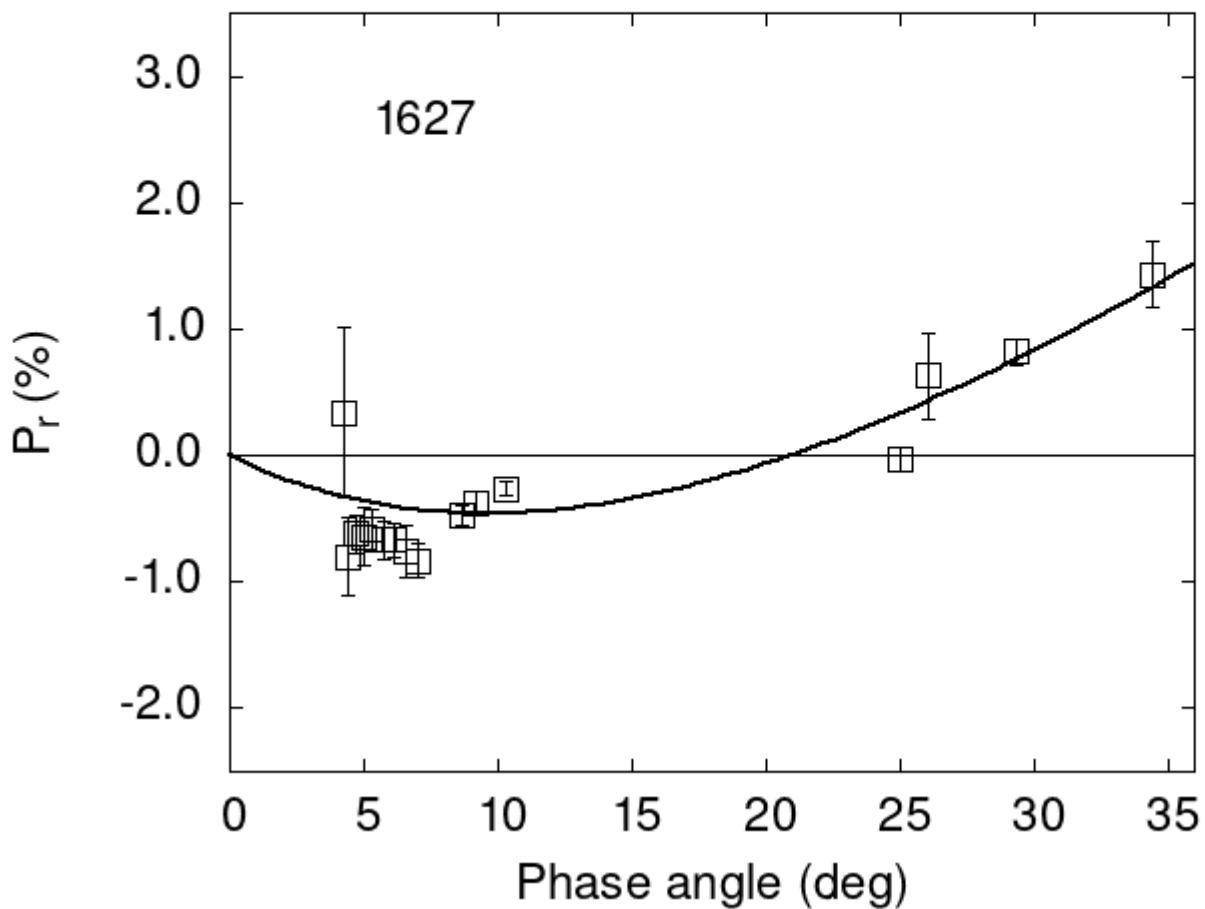


Catalogue of Asteroid Polarization Curves

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.

1627	4.24	0.34	0.67	V	f
1627	4.44	-0.80	0.31	V	f
1627	4.70	-0.62	0.15	V	f
1627	4.99	-0.64	0.23	V	f
1627	5.34	-0.59	0.17	V	f
1627	5.72	-0.67	0.15	V	f

```

1627  6.13 -0.67 0.14 V f
1627  6.55 -0.76 0.21 V f
1627  7.04 -0.83 0.14 V f
1627 26.09  0.63 0.34 V f
1627 29.37  0.82 0.10 V f
1627 34.40  1.43 0.26 V a
1627 46.90  3.19 0.25 V a
1627 48.60  3.85 0.48 V a
1627 50.10  3.65 0.30 V a
1627 50.60  3.73 0.28 V a
1627 51.10  3.30 0.35 V a
1627 59.30  4.16 0.41 V a
1627 59.60  5.00 0.40 V a
1627 60.50  4.83 0.44 V a
1627 60.70  4.73 0.43 V a
1627 61.40  3.53 1.05 V a
1627 64.10  5.74 0.88 V a
1627 8.70   -0.47 0.08 V a
1627 9.20   -0.38 0.10 V a
1627 10.30  -0.26 0.05 V a
1627 25.00  -0.03 0.10 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
#  5.1319    1.1616  19.1750    3.3003    0.1627    0.0170
#
#      Phmin     err     Pmin     err   Ph0      err      k      err
#      9.54    5.06 -0.459   0.552 20.96   0.55 0.0730 0.0265

```