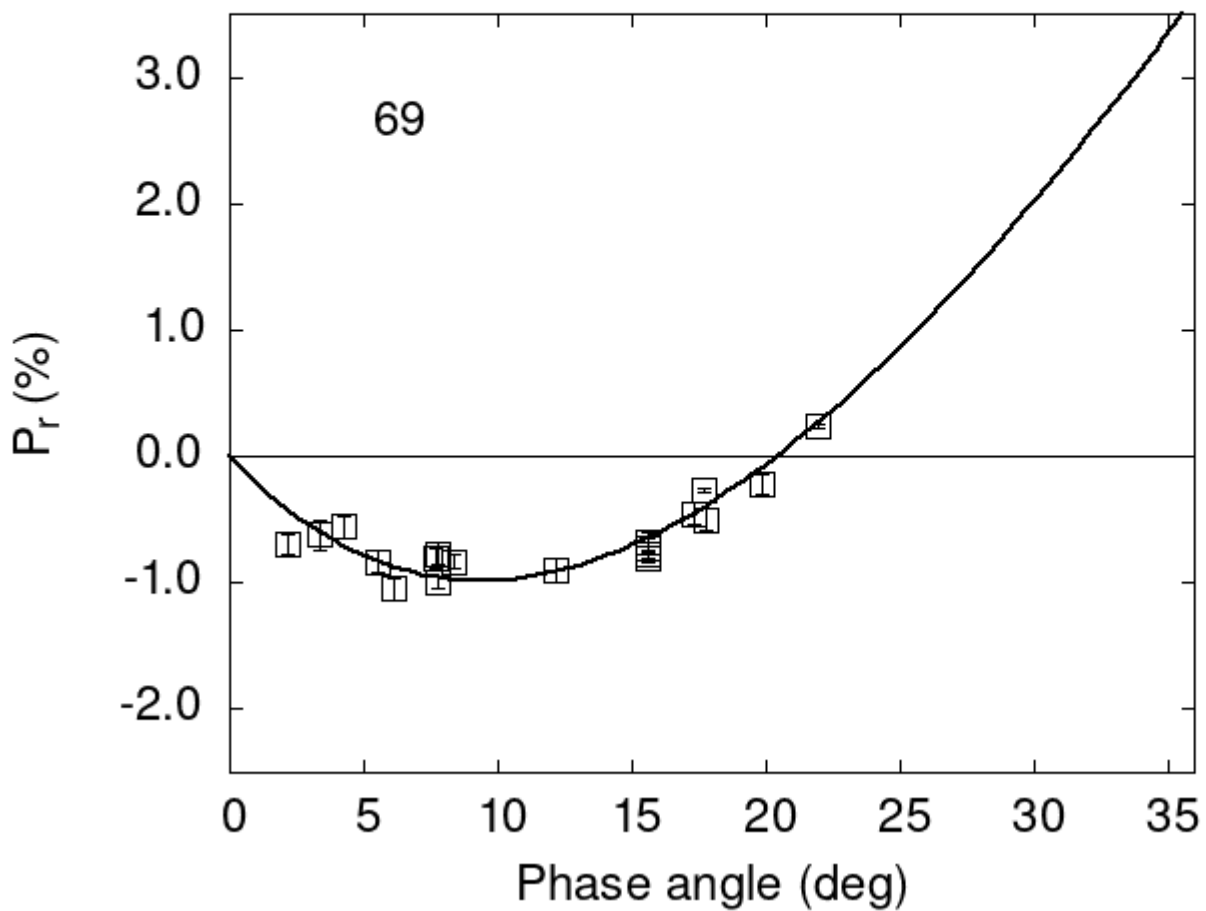


Catalogue of Asteroid Polarization Curves

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.

69	17.30	-0.45	0.08	V	d
69	2.15	-0.69	0.08	V	f
69	3.37	-0.62	0.12	V	f
69	4.25	-0.56	0.09	V	f
69	5.54	-0.83	0.08	V	f
69	6.13	-1.05	0.09	V	f

```

69 12.16 -0.90 0.09 V f
69 15.64 -0.68 0.08 V f
69 15.64 -0.73 0.08 R f
69 17.77 -0.50 0.09 V f
69 19.86 -0.22 0.08 V f
69 7.78 -0.77 0.09 V a
69 7.78 -1.00 0.05 R a
69 17.70 -0.27 0.02 V a
69 7.70 -0.80 0.08 V a
69 8.40 -0.83 0.05 V a
69 15.64 -0.80 0.03 V a
69 15.64 -0.77 0.03 R a
69 21.95 0.24 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 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
# 12.8187  0.4380  20.6324  0.5452  0.3942  0.0086
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.39  0.89 -0.985  0.204  20.43  0.24  0.1634  0.0116

```