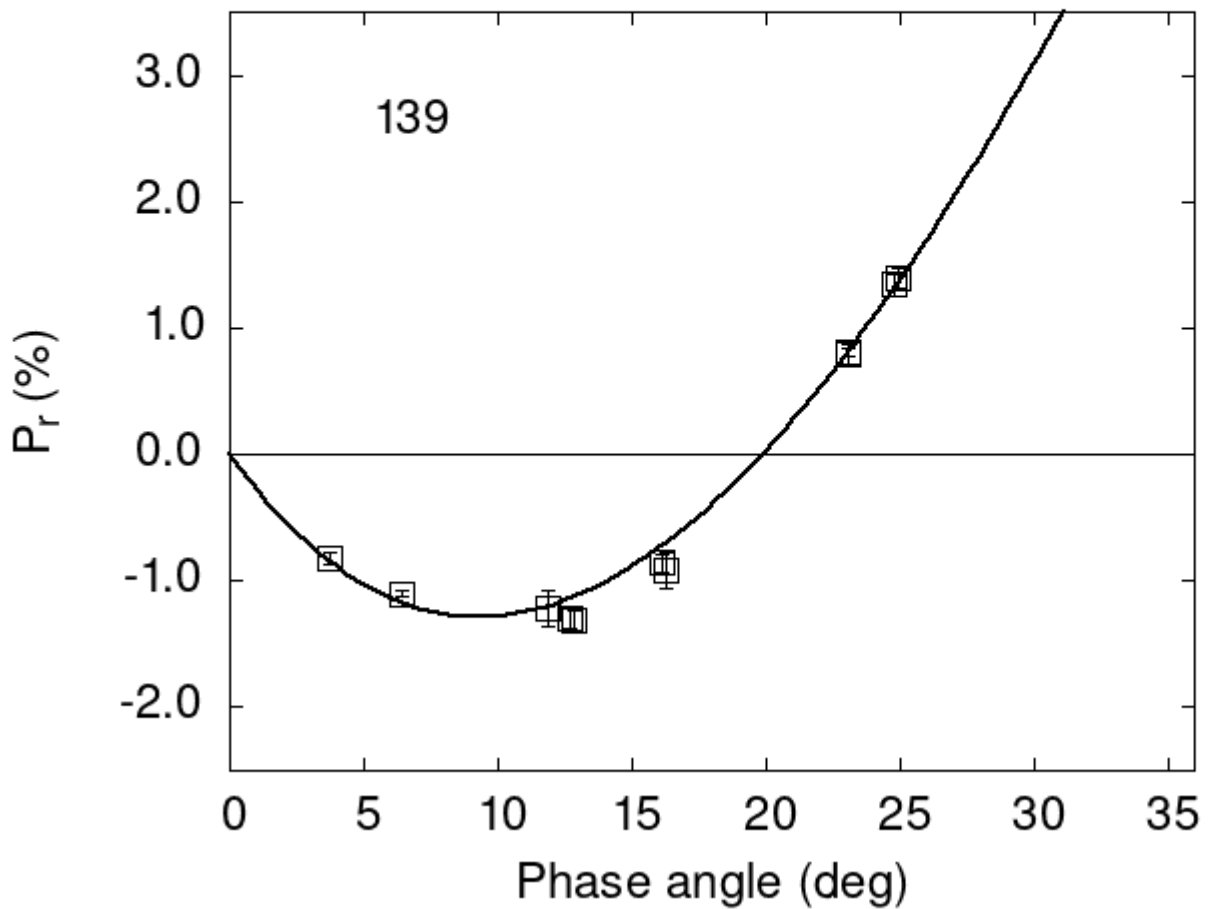


Catalogue of Asteroid Polarization Curves

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.

```
139 12.68 -1.30 0.08 V f
139 12.82 -1.31 0.08 V f
139 23.05 0.79 0.08 V f
139 24.76 1.34 0.09 V f
139 24.94 1.40 0.08 V f
139 16.30 -0.92 0.14 V f
```

```

139 16.10 -0.86 0.07 V f
139 3.77 -0.82 0.05 G a
139 11.84 -1.22 0.14 G a
139 6.40 -1.10 0.03 V a
139 23.05 0.81 0.03 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
# 24.8037  0.7220  25.6569  0.4980  0.6724  0.0125
#
#      Phmin   err   Pmin   err   Ph0   err   k      err
#      9.31   0.94 -1.288  0.277 19.91  0.18 0.2275 0.0181

```