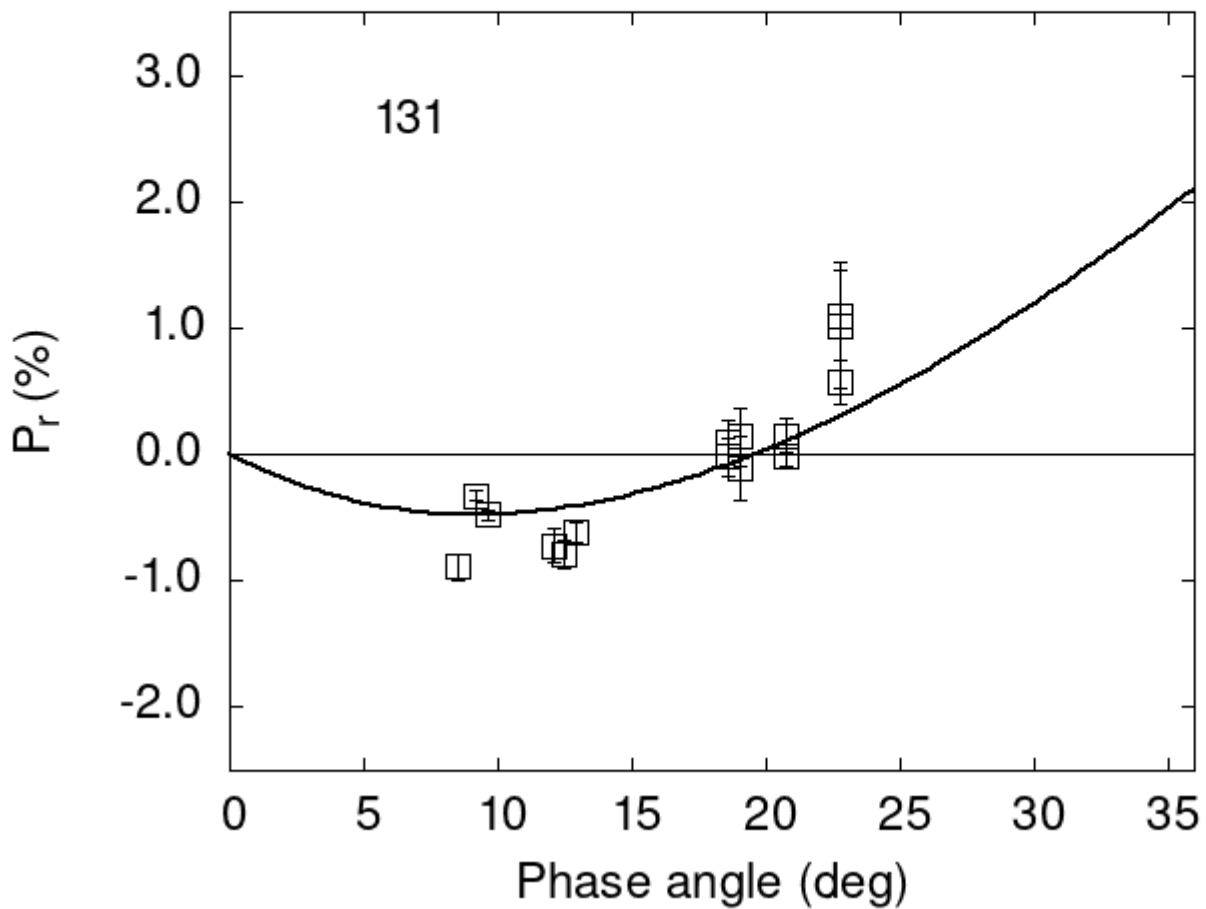


Catalogue of Asteroid Polarization Curves

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.

131	8.54	-0.89	0.10	V	f
131	9.20	-0.33	0.04	V	f
131	9.60	-0.48	0.04	V	f
131	18.57	0.10	0.17	V	f
131	18.57	-0.02	0.15	R	f
131	19.01	0.14	0.23	V	f

```

131 19.01 -0.11 0.26 R f
131 20.73 0.15 0.14 V f
131 20.73 -0.01 0.09 R f
131 22.80 0.57 0.18 R f
131 12.10 -0.72 0.13 V f
131 12.50 -0.79 0.11 V f
131 12.90 -0.62 0.08 V f
131 9.60 -0.48 0.04 V a
131 9.20 -0.33 0.04 V a
131 12.10 -0.72 0.13 V a
131 12.50 -0.79 0.11 V a
131 12.90 -0.62 0.08 V a
131 18.58 0.10 0.17 V b
131 18.58 -0.02 0.15 R b
131 19.01 0.14 0.23 V b
131 19.01 -0.11 0.26 R b
131 22.80 1.10 0.36 V b
131 22.80 0.57 0.18 R b
131 22.81 1.02 0.50 R b
131 20.73 0.15 0.14 V b
131 20.73 -0.01 0.09 R b

```

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
#      8.6300     0.3540    24.3416    1.1254     0.2433     0.0078
#
#      Phmin    err   Pmin    err   Ph0    err    k      err
#      9.17    1.45 -0.478  0.168 19.65  0.47 0.0851 0.0103

```