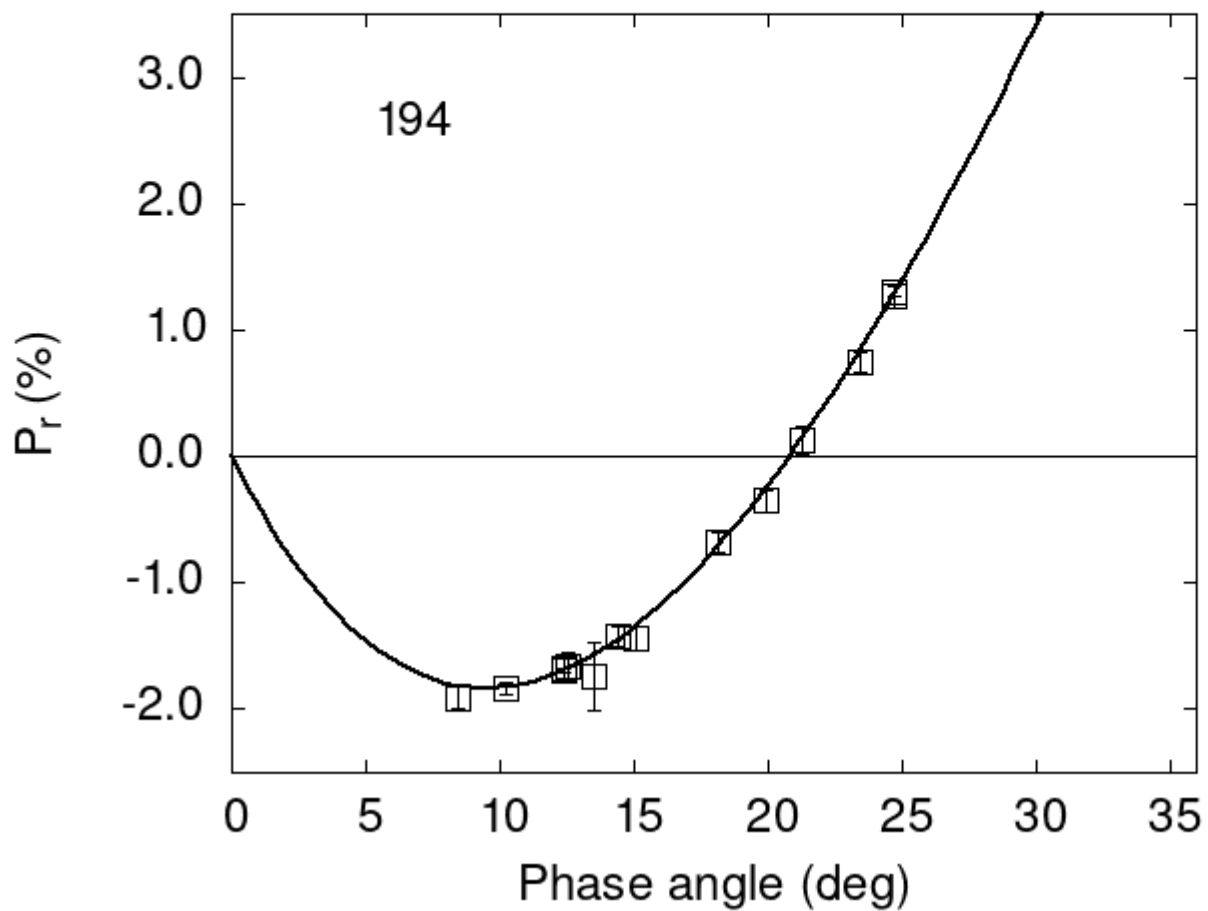


Catalogue of Asteroid Polarization Curves

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.

194	8.47	-1.91	0.09	V	f
194	12.40	-1.67	0.08	V	f
194	12.54	-1.66	0.11	V	f
194	13.50	-1.74	0.27	V	f
194	15.06	-1.44	0.10	V	f
194	18.12	-0.68	0.08	V	f

```

194 19.91 -0.35 0.09 V f
194 21.29 0.13 0.11 V f
194 23.44 0.74 0.08 V f
194 24.72 1.27 0.09 V f
194 12.40 -1.69 0.02 V a
194 24.72 1.30 0.04 V a
194 14.40 -1.42 0.08 V a
194 10.20 -1.83 0.05 V h

```

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
# 20.7400  0.6397 19.1923  0.4221  0.6592  0.0128
#
#      Phmin   err   Pmin    err   Ph0    err    k      err
#      9.49   0.73 -1.835  0.310 20.83  0.14 0.2942 0.0171

```