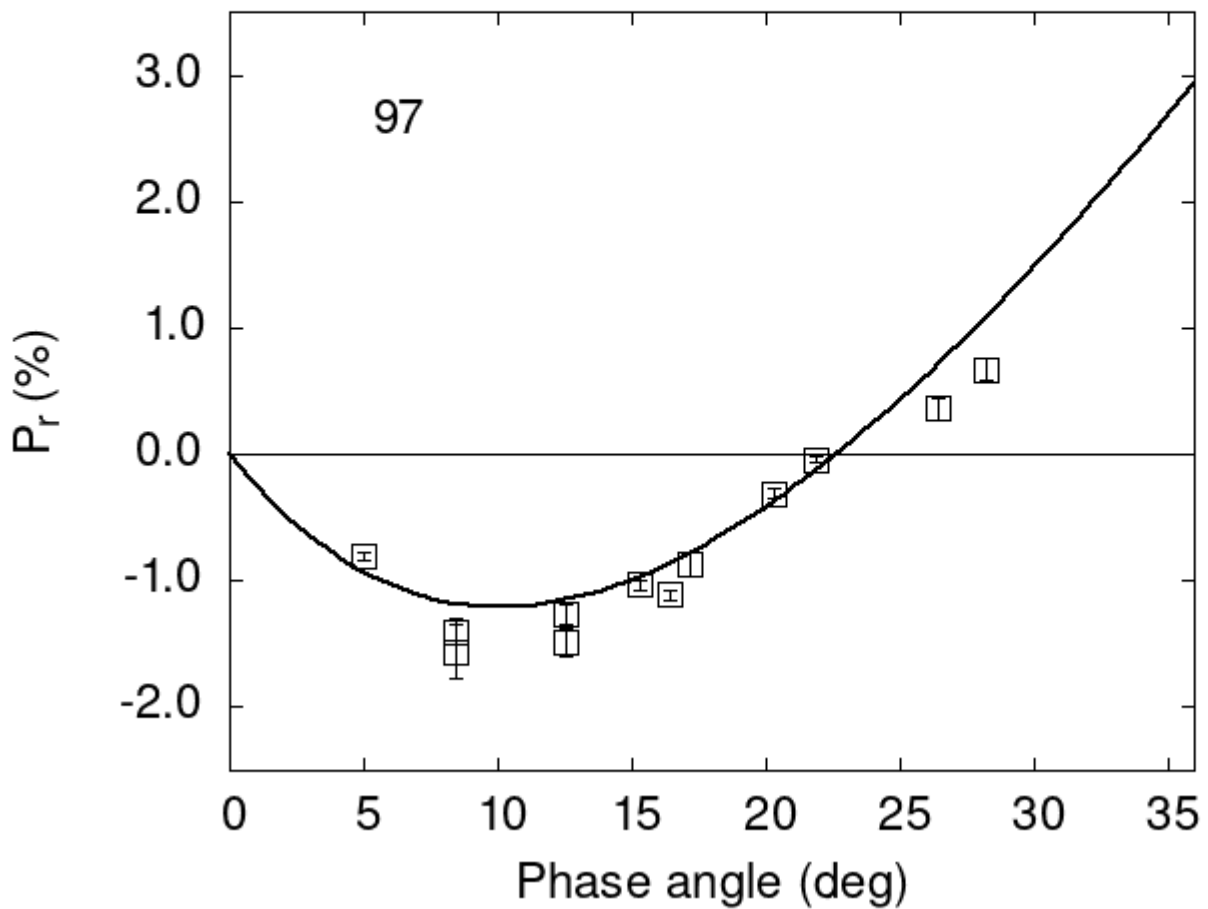


Catalogue of Asteroid Polarization Curves

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.

```
97 26.46  0.36 0.09 V f
97 28.23  0.67 0.09 V f
97  8.44 -1.56 0.21 V a
97  8.44 -1.40 0.10 R a
97 12.58 -1.48 0.11 V a
97 12.58 -1.26 0.08 R a
```

```

97 21.90 -0.04 0.02 V a
97  5.00 -0.81 0.03 V a
97 16.40 -1.11 0.04 V a
97 17.20 -0.87 0.10 V a
97 15.30 -1.03 0.04 V a
97 20.30 -0.31 0.04 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
# 10.1855  0.5040  17.1161  0.6605  0.3298  0.0107
#
#      Phmin  err  Pmin  err  Ph0  err  k      err
# 10.10  1.05 -1.209  0.281 22.67 0.23 0.1715 0.0134

```