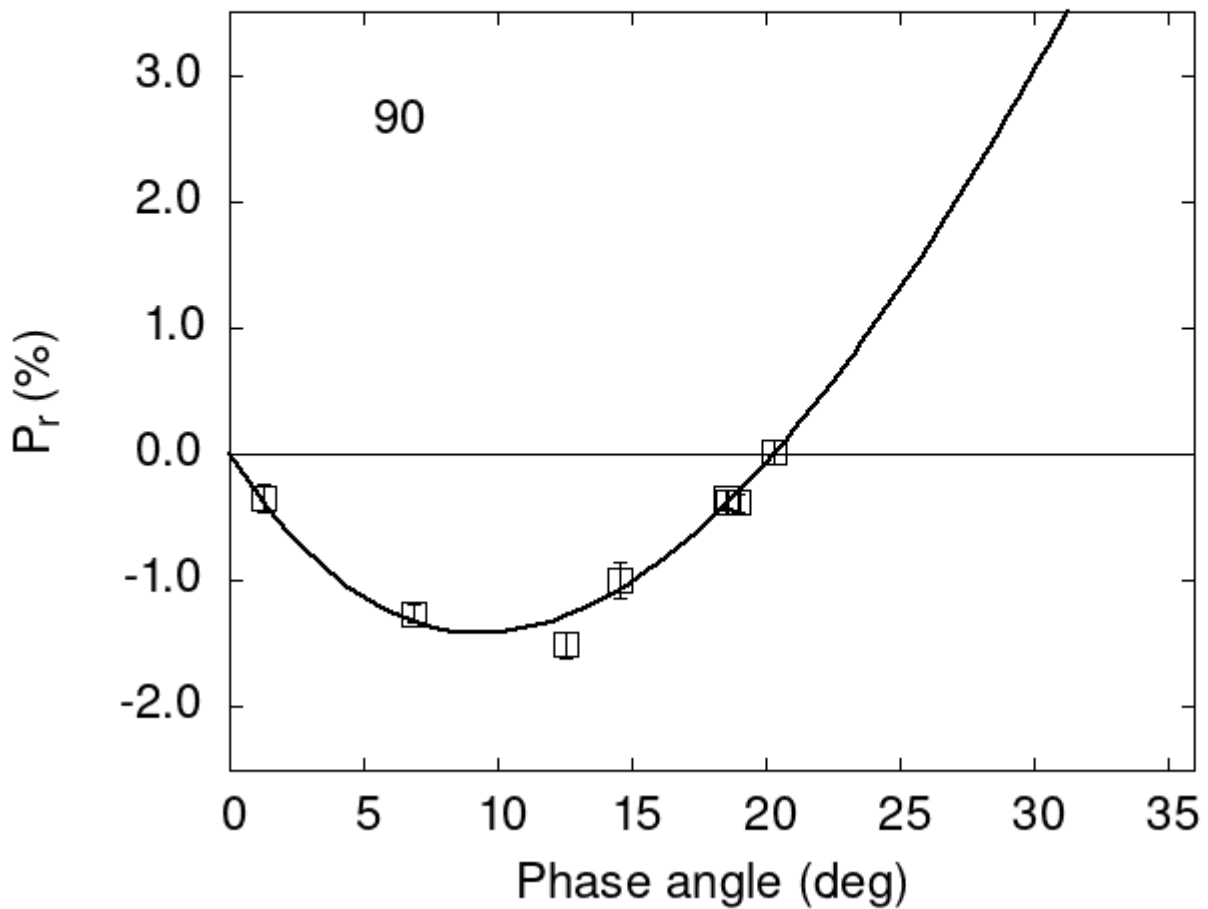


Catalogue of Asteroid Polarization Curves

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.

```
90  1.27  -0.35  0.11  V  f
90  12.55 -1.51  0.10  V  f
90  14.53 -1.00  0.14  V  f
90  18.58 -0.38  0.10  V  f
90  20.30  0.02  0.09  V  f
90  19.00 -0.38  0.07  V  a
```

90 6.90 -1.26 0.07 V a
 90 18.50 -0.35 0.07 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
# 20.8971  0.8490  22.2143  0.9327  0.6165  0.0208
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.39  1.29 -1.415  0.427 20.31  0.17 0.2395 0.0259
```