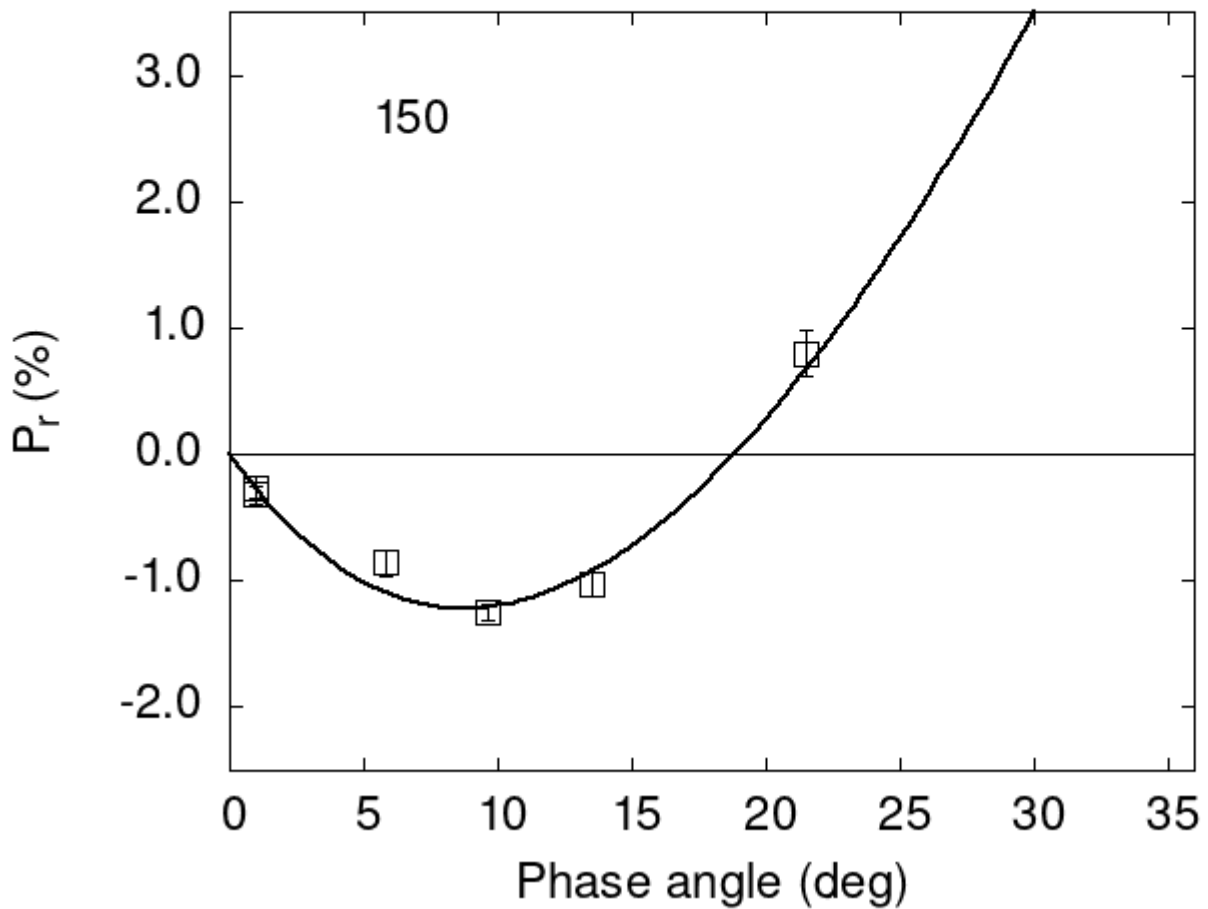


# Catalogue of Asteroid Polarization Curves

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.

```
150 21.54  0.80 0.18 V f
150  0.96 -0.32 0.07 V f
150  0.96 -0.26 0.09 R f
150  9.60 -1.25 0.07 V a
150  5.80 -0.86 0.10 V a
150 13.50 -1.03 0.10 V a
```

```

150 0.96 -0.32 0.07 V b
150 0.96 -0.26 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  $\alpha$  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
# 21.2031  0.9206  22.8129  1.0723  0.6325  0.0253
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      8.78  1.50 -1.220  0.452 18.84 0.18 0.2256 0.0310

```