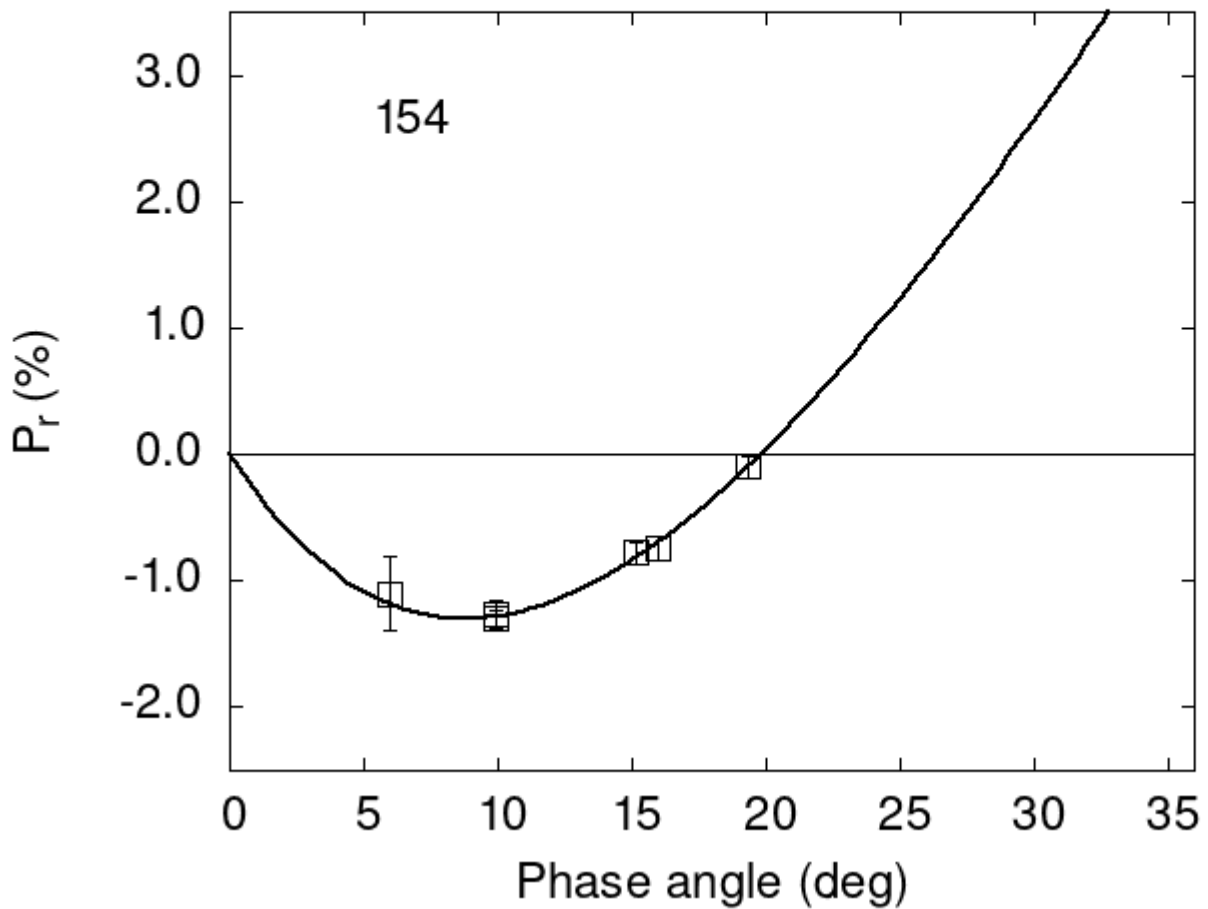


# Catalogue of Asteroid Polarization Curves

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.

```
154 15.14 -0.78 0.09 V f
154 19.37 -0.10 0.09 V f
154 9.90 -1.27 0.12 V a
154 9.90 -1.30 0.07 R a
154 6.00 -1.10 0.29 V h
154 16.00 -0.74 0.10 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  $\alpha$  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
# 10.1231  0.3172  14.1757  0.6543  0.3843  0.0142
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      8.78  0.73 -1.300  0.248 19.85 0.19 0.2082 0.0156
```