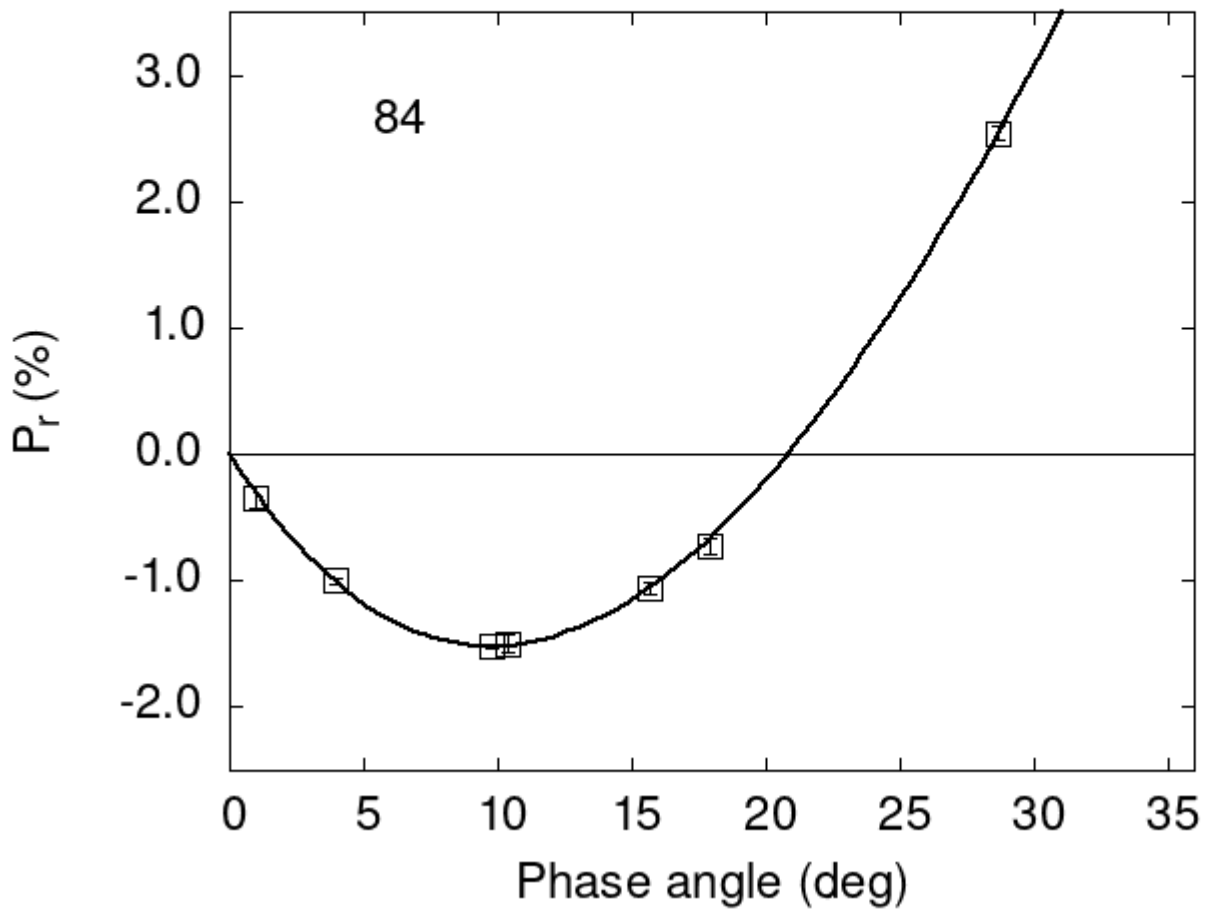


# Catalogue of Asteroid Polarization Curves

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.

```
84 0.95 -0.34 0.09 V f
84 17.95 -0.73 0.06 G a
84 9.82 -1.52 0.01 G a
84 3.93 -1.00 0.02 G a
84 10.36 -1.50 0.07 G a
84 28.65 2.54 0.06 G a
```

84 15.70 -1.06 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  $\alpha$  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
# 29.1712  0.7927  26.8102  0.5018  0.7563  0.0115
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.75  0.89 -1.520  0.300 20.84  0.16 0.2563 0.0179
```