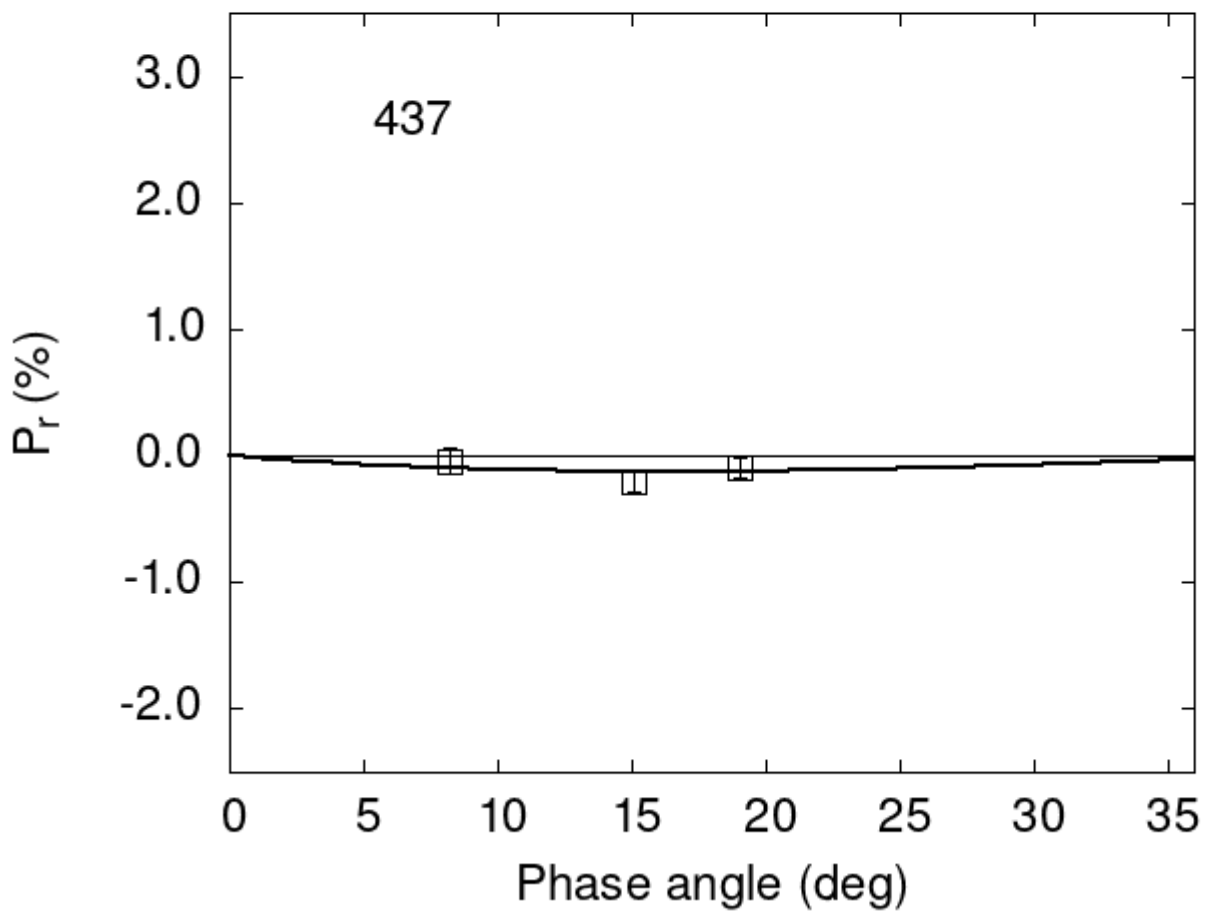# Catalogue of Asteroid Polarization Curves

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.

```
437  8.24 -0.04 0.10 V f
437 15.11 -0.20 0.09 V f
437 19.04 -0.09 0.08 V f
```

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
#     0.6400    0.3823   20.4201   22.1087   0.0140    0.0060
#
#     Phmin    err    Pmin     err   Ph0     err    k       err
#      16.46  15.63  -0.124   0.342  38.91  4.28  0.0093  0.0081
```