Catalogue of Asteroid Polarization Curves
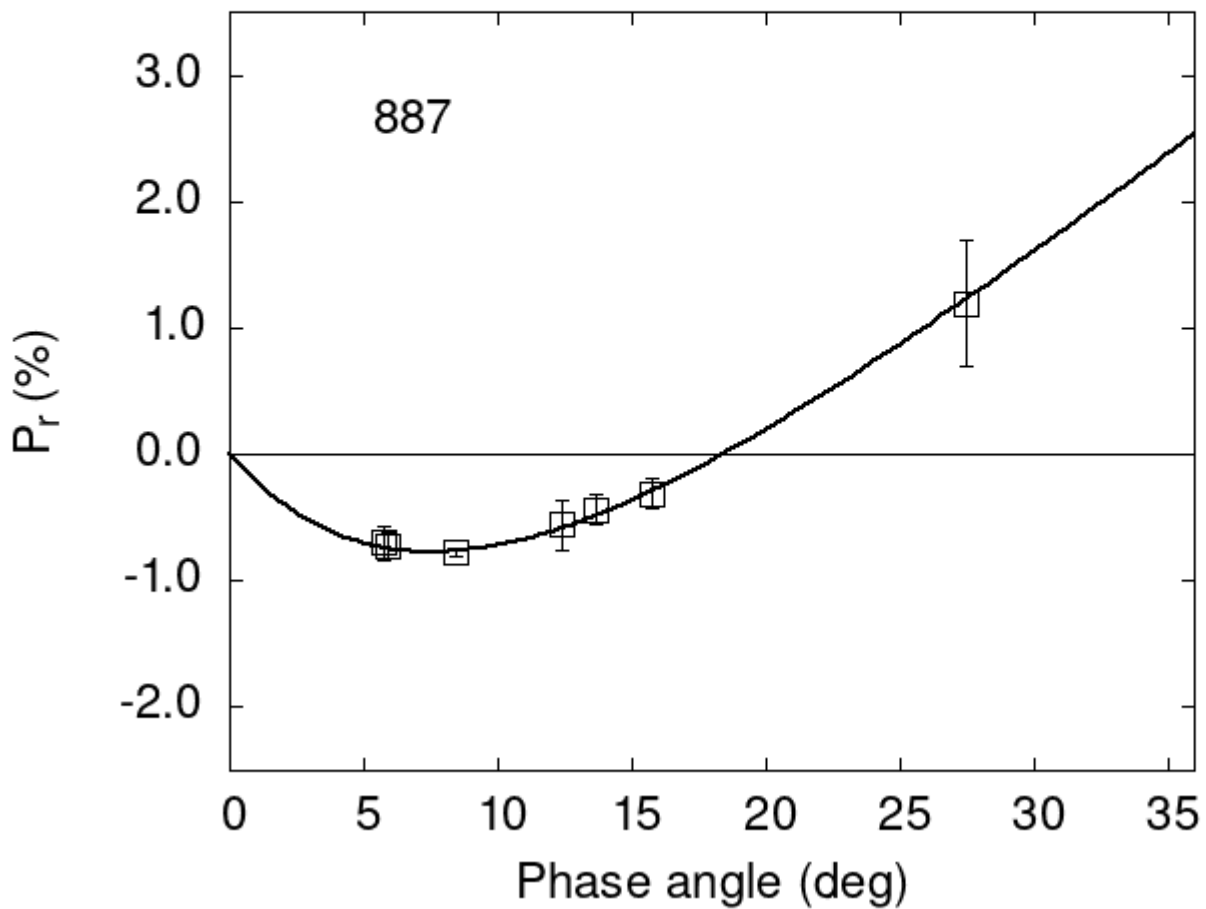
Gil-Hutton (2023)

Polarimetric data:

The columns list the object number, the phase angle (degrees), P_r (%), its error, the filter used, and the reference code.

```
887 27.52   1.19 0.50 G a
887 15.74  -0.31 0.12 G a
887 13.68  -0.44 0.12 G a
887 12.41  -0.56 0.20 G a
887  5.75  -0.70 0.13 G a
887  5.92  -0.72 0.10 G a
```

```
  887   8.47 -0.77 0.03 G a
```

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
#    3.3694    0.4765   8.3991    1.2387    0.1625    0.0198
#
#     Phmin    err    Pmin     err  Ph0     err    k       err
#      7.59   1.57  -0.771   0.369 18.42   0.34 0.1177 0.0223
```