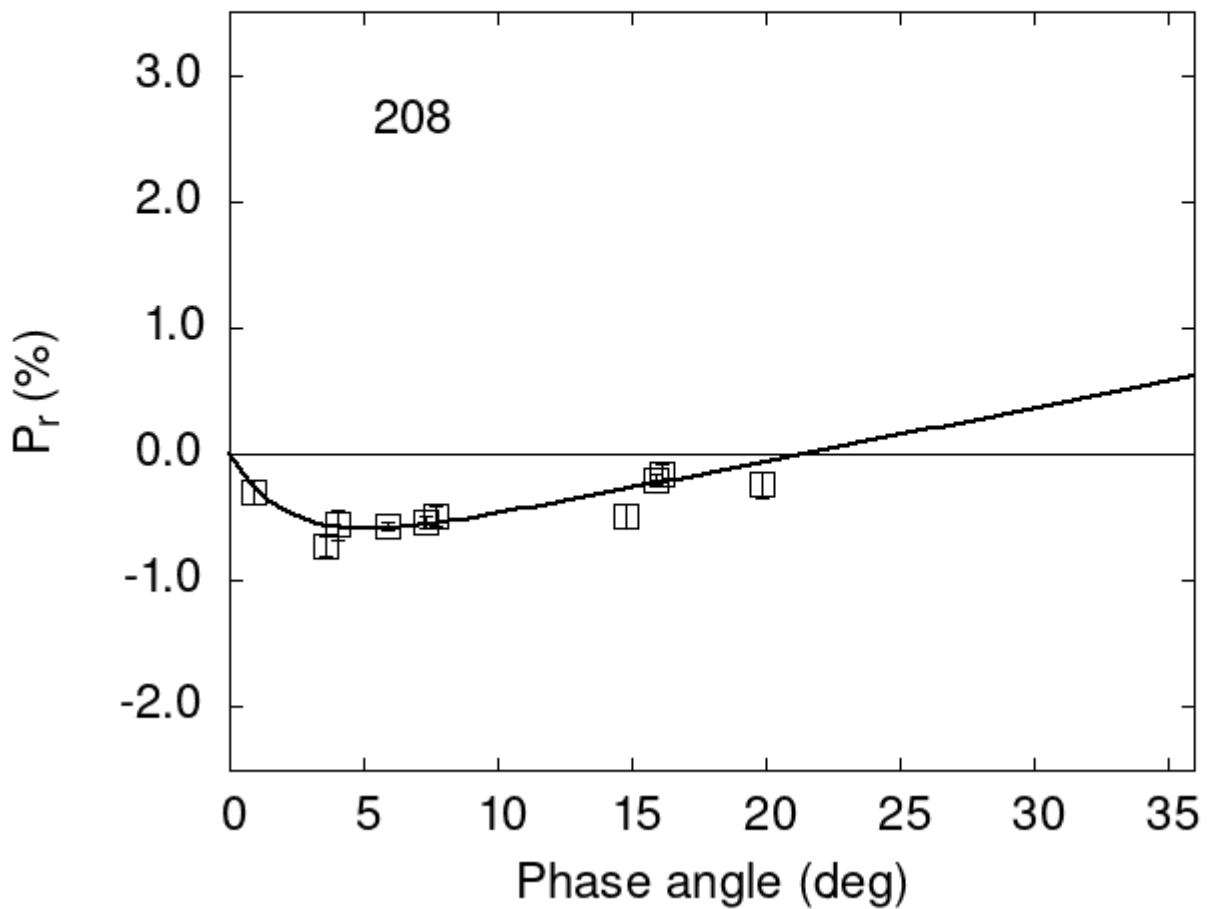# Catalogue of Asteroid Polarization Curves

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.

```
208   3.56  -0.72 0.08 V f
208   4.04  -0.56 0.12 V f
208   0.90  -0.30 0.09 V a
208   7.70  -0.49 0.08 V a
208   7.30  -0.54 0.05 V a
208   5.90  -0.57 0.03 V a
```

```
208 14.80 -0.49 0.09 V a
208 15.90 -0.20 0.04 V a
208 16.10 -0.15 0.07 V a
208 19.90 -0.24 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 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
#    0.9000    0.2032   2.3000    1.1302   0.0420    0.0109
#
#     Phmin    err    Pmin     err  Ph0      err    k        err
#      5.13   1.60  -0.588   0.217 21.41   0.95 0.0420 0.0109
```