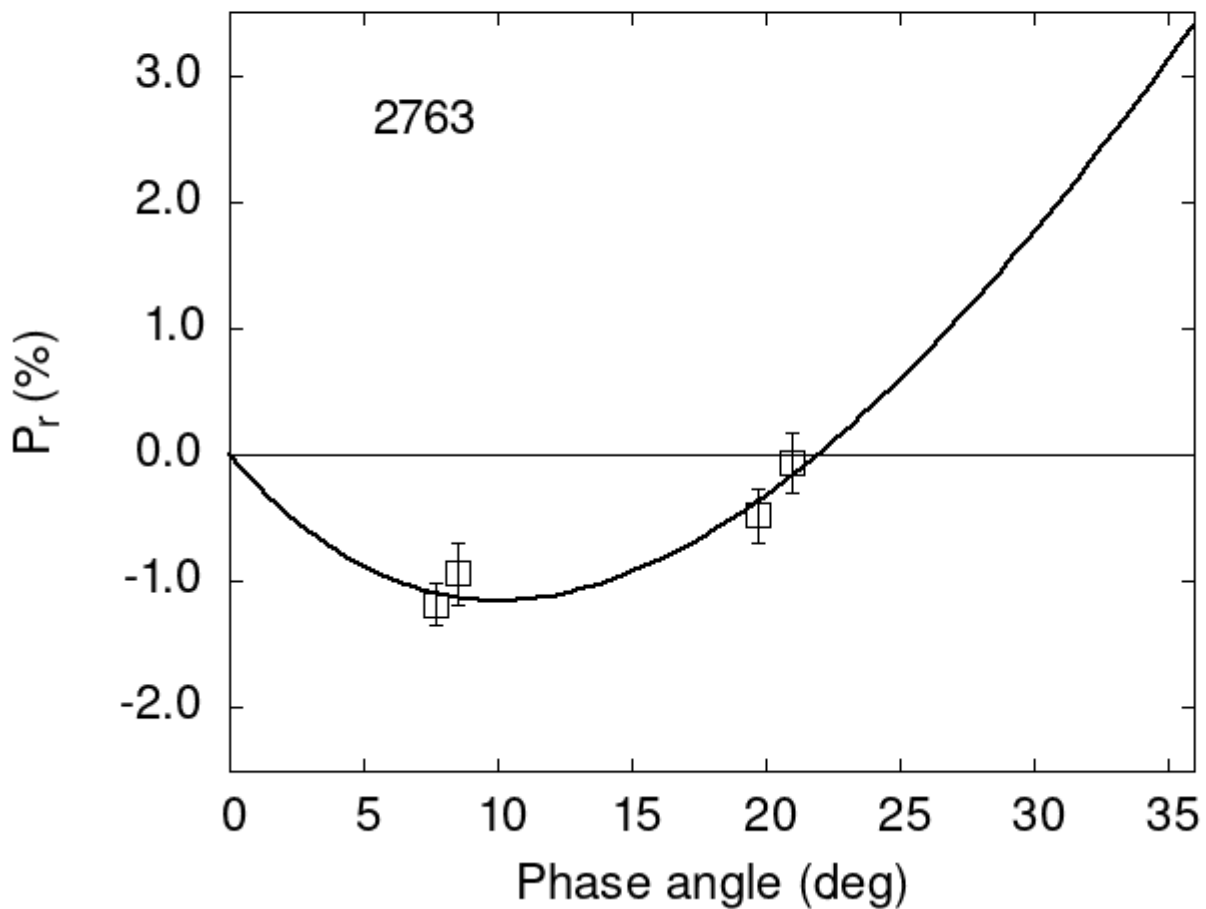# Catalogue of Asteroid Polarization Curves

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.

```
2763  8.50 -0.94 0.24 V a
2763  7.70 -1.18 0.17 V a
2763 21.00 -0.06 0.24 V a
2763 19.70 -0.48 0.21 V 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
#   14.7394    0.8230   21.9436   2.4747    0.4244    0.0312
#
#     Phmin    err    Pmin     err   Ph0     err    k        err
#     10.08   2.43  -1.151   0.651  21.97  0.23  0.1775   0.0341
```