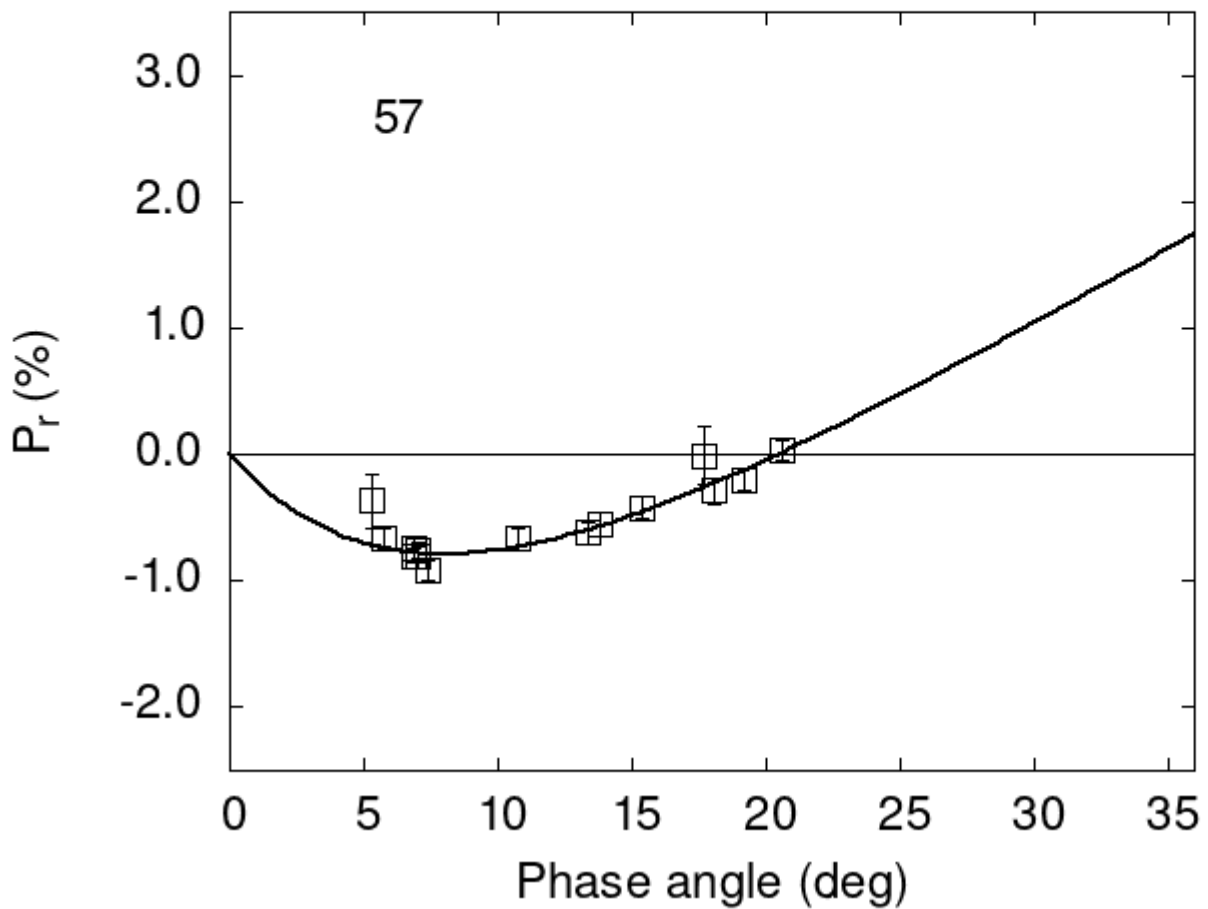


# Catalogue of Asteroid Polarization Curves

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.

```
57  5.72 -0.67 0.08 V f
57  6.90 -0.74 0.09 V f
57  7.01 -0.81 0.09 V f
57  7.36 -0.92 0.08 V f
57 10.79 -0.67 0.09 V f
57 13.34 -0.62 0.09 V f
```

```

57 13.80 -0.55 0.09 V f
57 15.36 -0.42 0.09 V f
57 18.05 -0.29 0.10 V f
57 19.18 -0.20 0.09 V f
57 20.60 0.04 0.08 V f
57 7.01 -0.76 0.06 V a
57 6.90 -0.80 0.05 V a
57 5.30 -0.37 0.22 V a
57 17.70 -0.01 0.23 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  $\alpha$  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
#      2.6659      0.3833      7.4000      1.1074      0.1218      0.0154
#
#      Phmin      err      Pmin      err      Ph0      err      k      err
#      8.02      1.42      -0.787      0.318      20.51      0.40      0.0993      0.0169

```