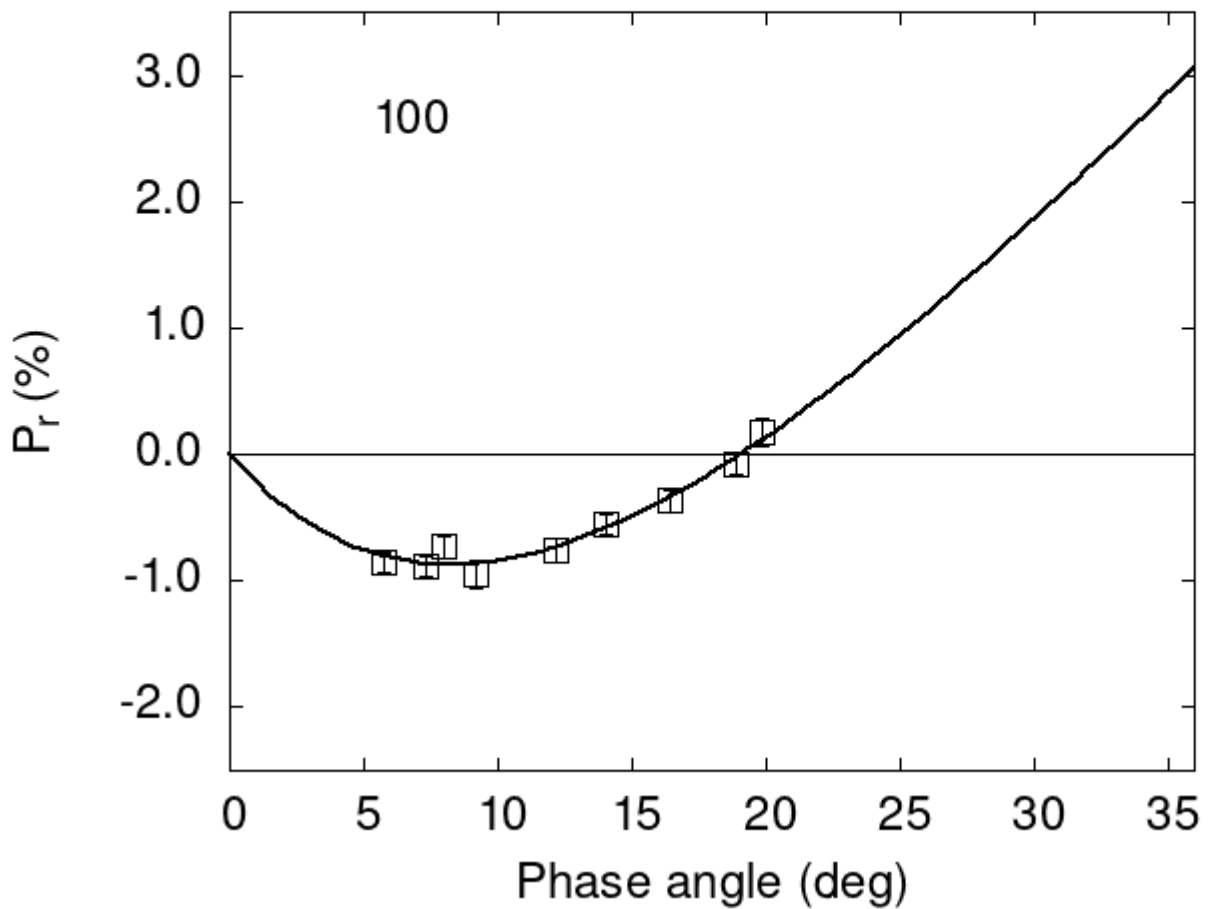


# Catalogue of Asteroid Polarization Curves

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.

```
100  5.74 -0.85 0.08 V f
100  7.97 -0.73 0.09 V f
100  9.16 -0.95 0.11 V f
100 12.18 -0.76 0.09 V f
100 14.03 -0.55 0.08 V f
100 16.45 -0.37 0.09 V f
```

```

100 18.93 -0.07 0.09 V f
100 19.85 0.18 0.11 V f
100 7.30 -0.88 0.08 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
#      5.2911    0.3437    11.3546    0.7594    0.2256    0.0117
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      8.24    0.97 -0.872    0.237 19.08    0.29 0.1388 0.0136

```