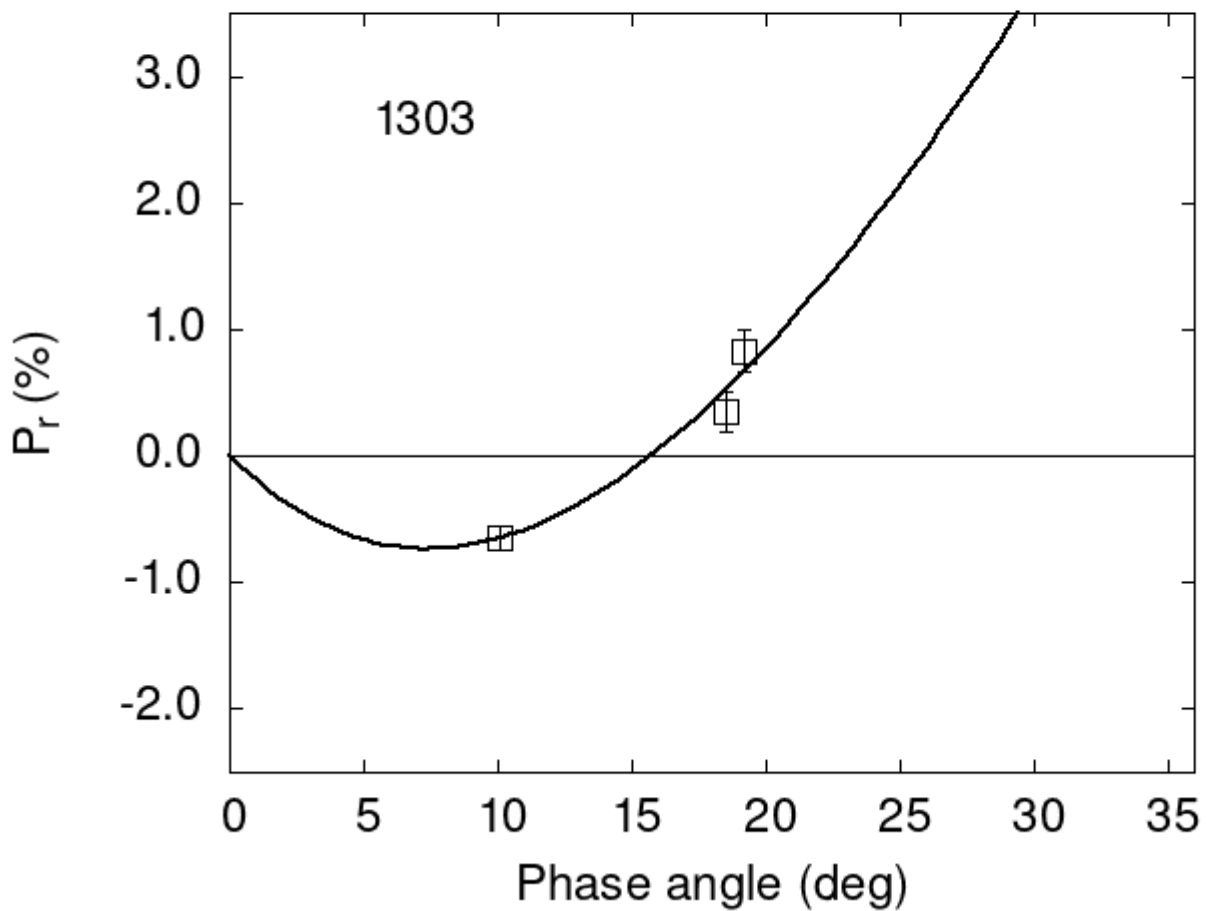


# Catalogue of Asteroid Polarization Curves

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.

```
1303 10.05 -0.65 0.09 V f
1303 18.52 0.35 0.16 V f
1303 19.20 0.83 0.17 V f
```

## 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
# 14.9004    0.4008  20.9061    1.6577    0.5009    0.0265
#
#      Phmin    err  Pmin    err  Ph0    err    k      err
#       7.37   1.64 -0.735  0.372 15.72  0.24 0.1648 0.0288
```