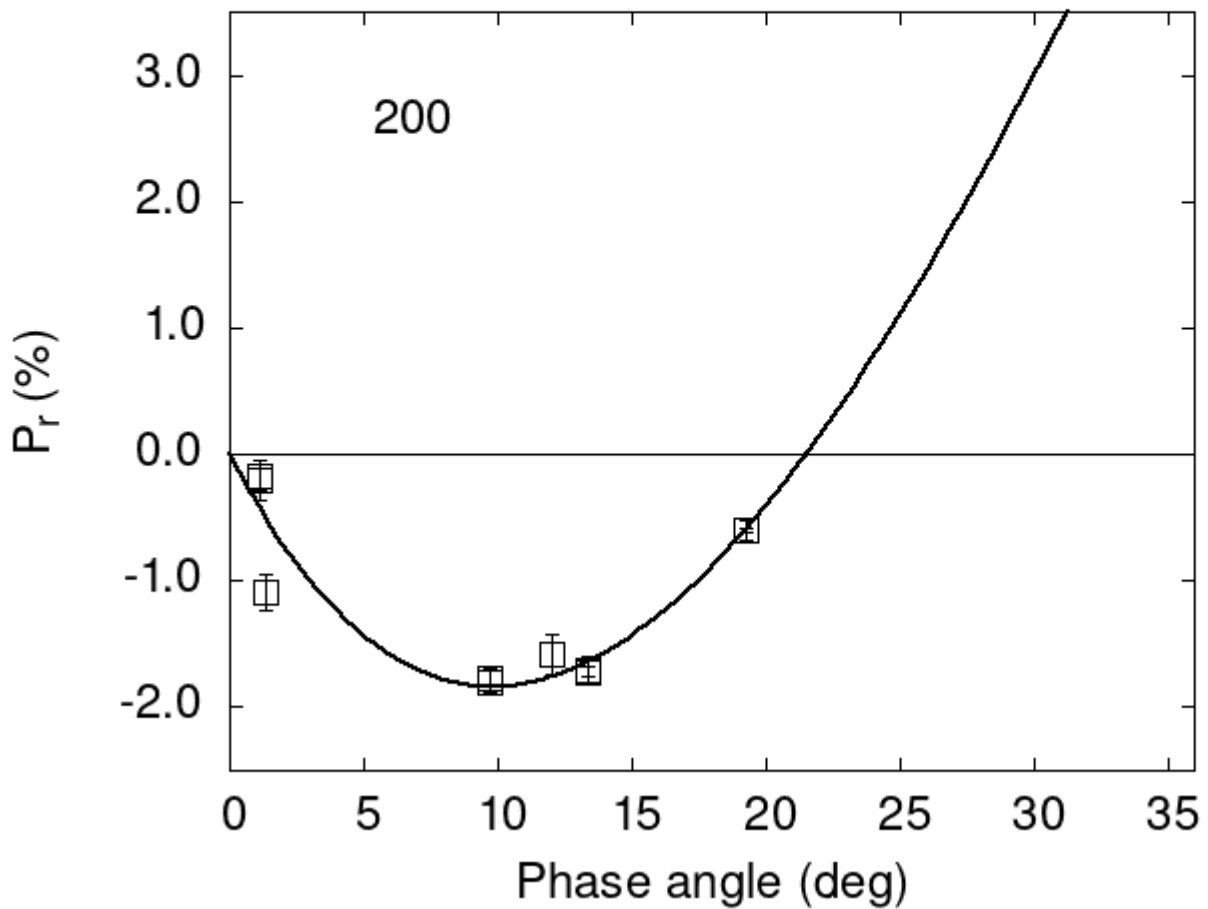


# Catalogue of Asteroid Polarization Curves

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.

```
200 13.40 -1.71 0.11 V f
200 19.25 -0.60 0.08 V f
200 9.71 -1.77 0.07 V f
200 9.71 -1.80 0.09 R f
200 1.36 -1.09 0.14 R a
200 1.10 -0.18 0.11 V a
```

```

200  1.10 -0.20 0.16 R a
200 13.40 -1.72 0.04 V a
200 19.25 -0.60 0.02 V a
200 12.00 -1.58 0.16 V a
200  9.71 -1.77 0.07 V b
200  9.71 -1.80 0.09 R b

```

## 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
# 21.0012    0.3057  19.9813    0.3221    0.6433    0.0074
#
#      Phmin    err  Pmin    err  Ph0    err    k      err
#      9.81    0.40 -1.837  0.172 21.53  0.14 0.2854 0.0090

```