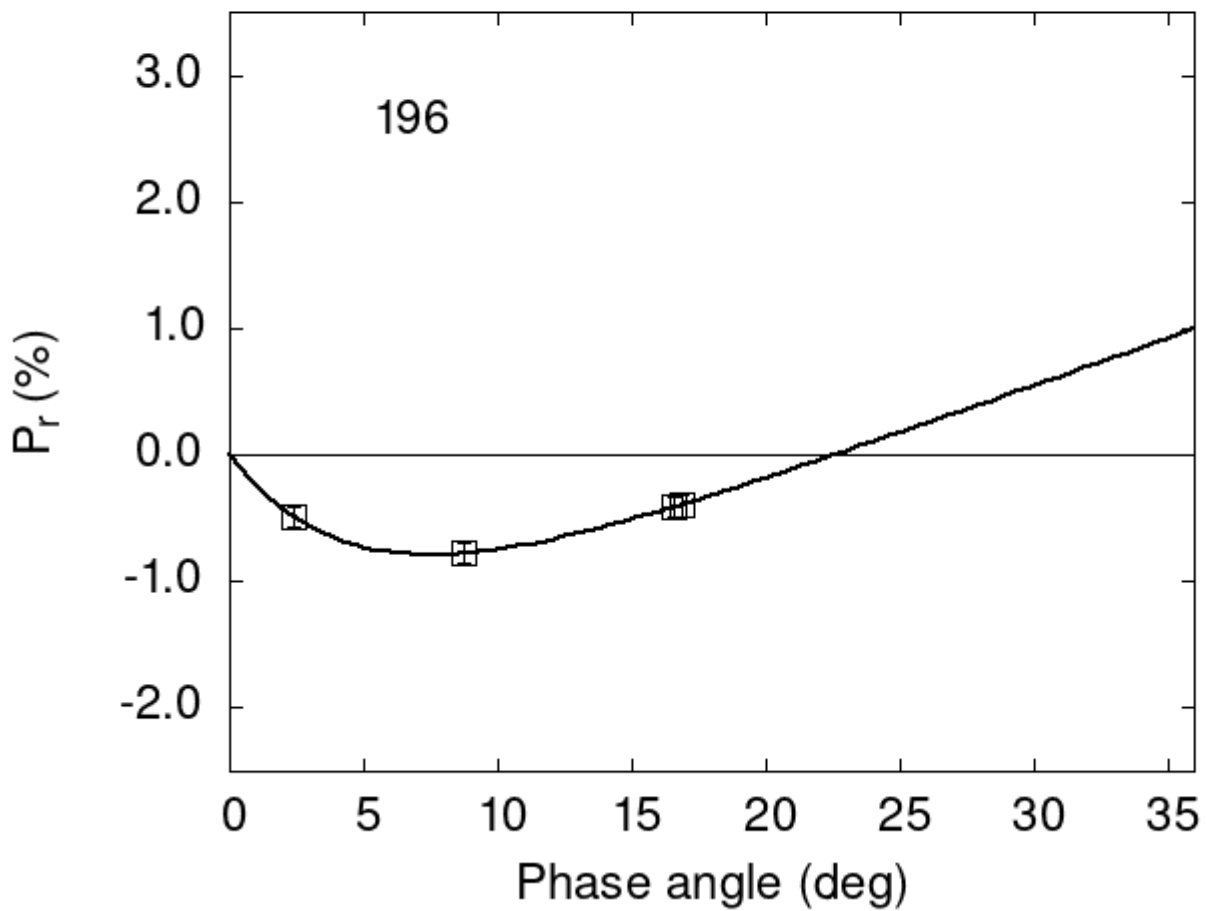


# Catalogue of Asteroid Polarization Curves

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.

```
196  2.39 -0.49 0.08 V f
196  8.72 -0.78 0.08 V f
196 16.61 -0.41 0.08 V f
196 16.91 -0.40 0.09 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
#      1.7203    0.3494    4.8428    1.1944    0.0753    0.0187
#
#      Phmin    err   Pmin    err   Ph0    err    k      err
#      7.51    1.69 -0.790  0.339 22.64  0.56 0.0720 0.0190
```