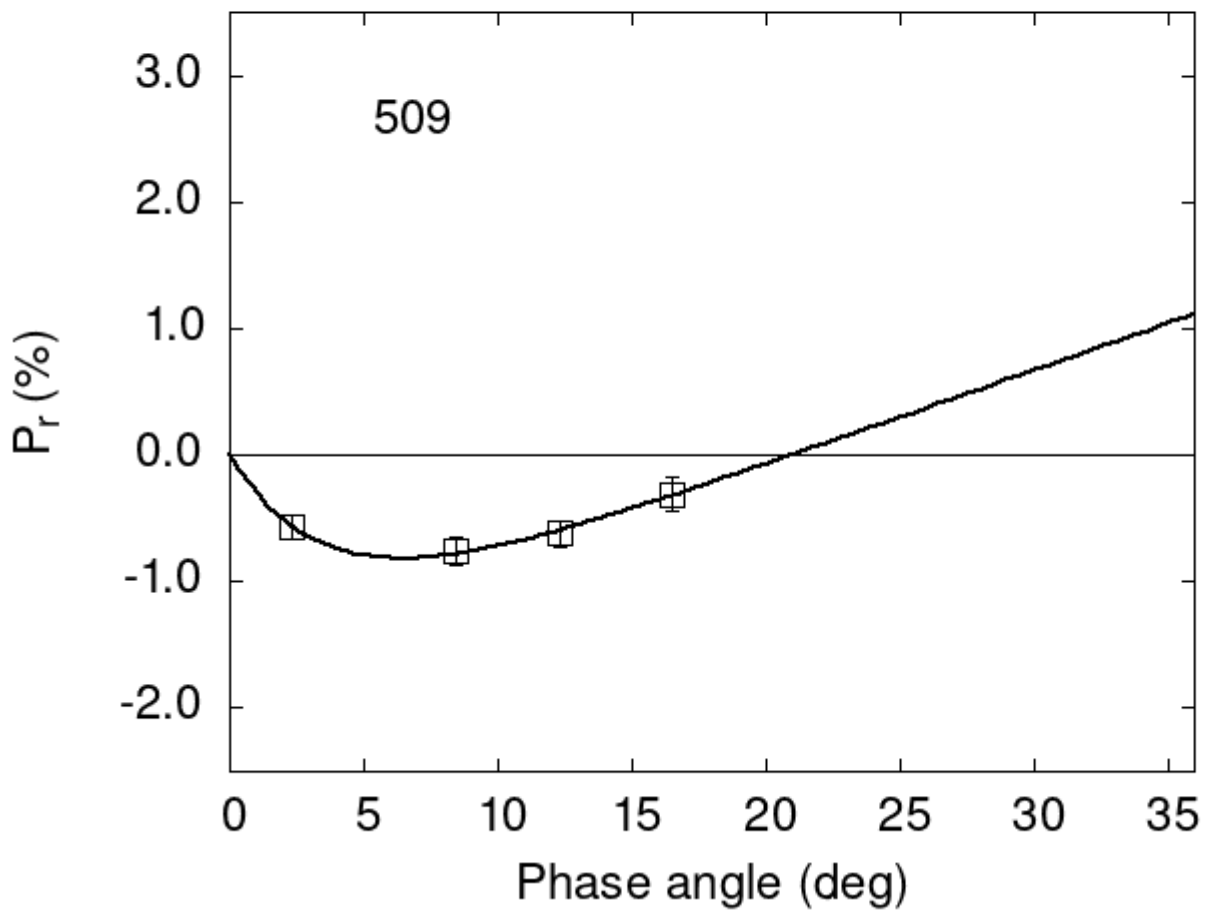


# Catalogue of Asteroid Polarization Curves

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.

```
509  2.34 -0.57 0.10 V f
509  8.44 -0.76 0.11 V f
509 12.35 -0.62 0.10 V f
509 16.47 -0.31 0.13 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
#      1.5697    0.6247    3.6827    1.5532    0.0744    0.0378
#
#      Phmin    err   Pmin    err   Ph0    err    k      err
#      6.43    2.64 -0.817  0.605  21.00  0.55  0.0730  0.0380
```