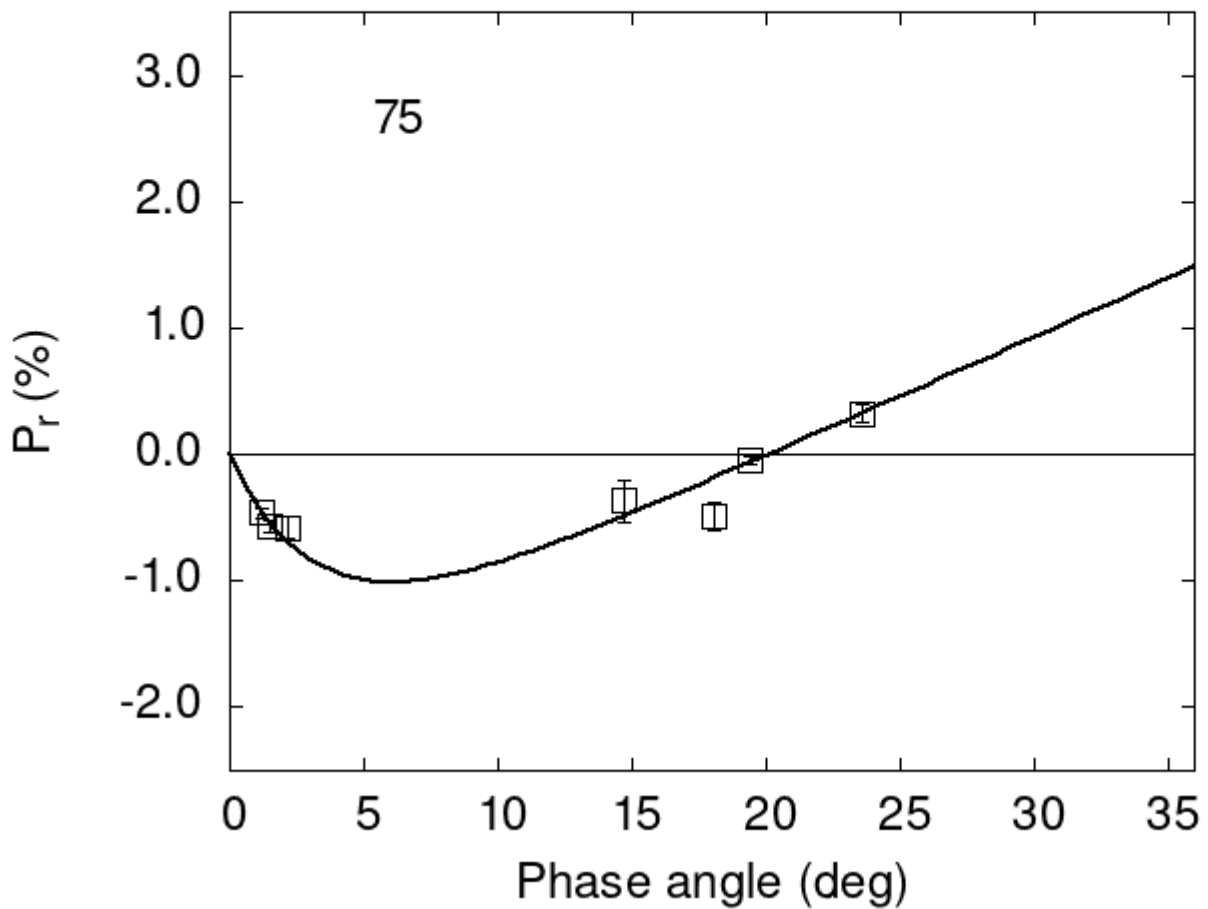


# Catalogue of Asteroid Polarization Curves

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.

```
75  2.19 -0.58 0.09 V f
75  19.40 -0.05 0.03 V a
75  23.60  0.32 0.07 V a
75  1.20 -0.46 0.04 V a
75  1.50 -0.57 0.05 V a
75  18.10 -0.49 0.11 V a
```

75 14.70 -0.37 0.16 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
#      1.8944    0.3366    3.3863    0.6523    0.0938    0.0163
#
#      Phmin    err   Pmin    err   Ph0    err    k      err
#      6.05    0.99 -1.009  0.317 20.12  0.43 0.0924 0.0164
```