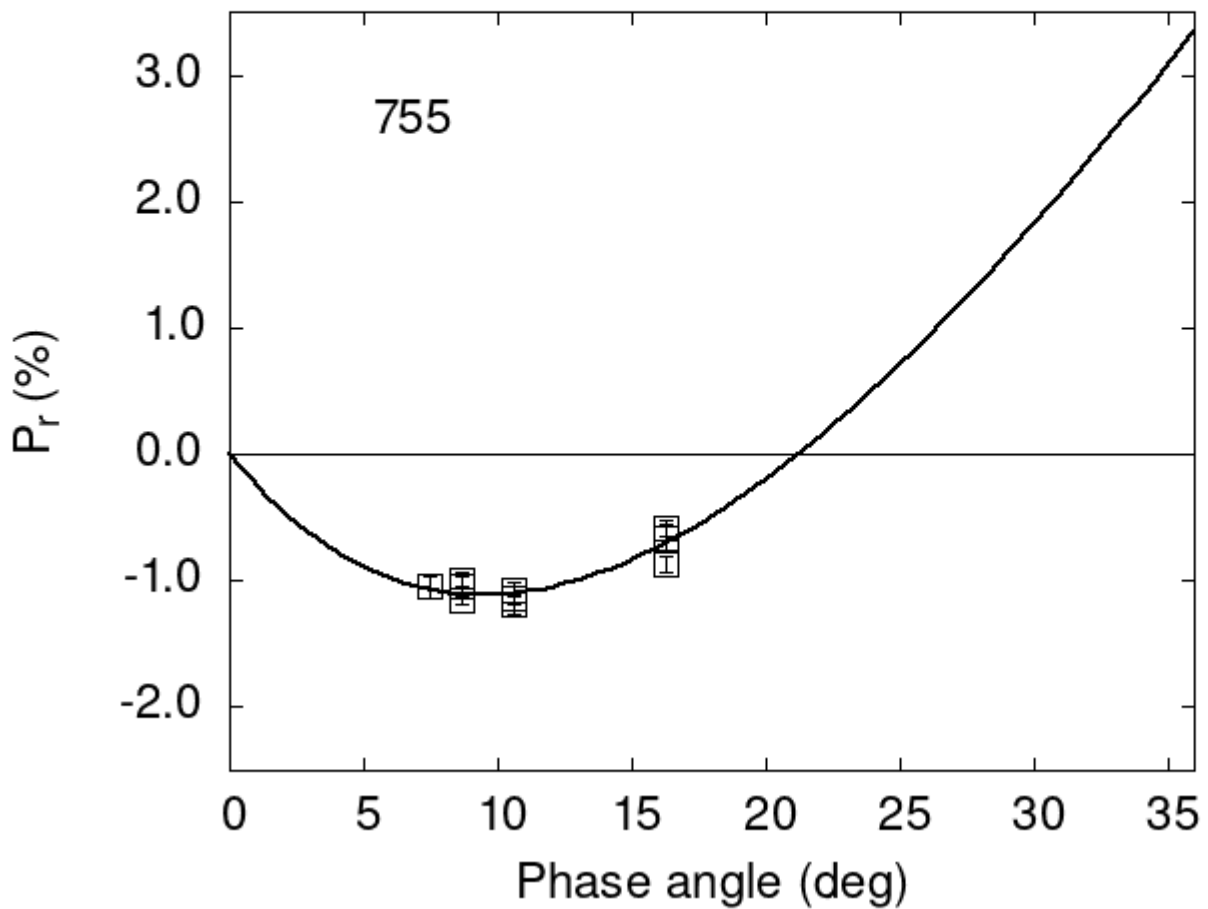


# Catalogue of Asteroid Polarization Curves

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.

```
755  8.70 -0.99 0.05 R d
755  8.70 -1.04 0.07 V d
755  8.70 -1.15 0.03 R d
755 10.60 -1.07 0.06 R d
755 10.60 -1.19 0.08 V d
755 10.60 -1.14 0.05 R d
```

```

755 16.30 -0.87 0.07 R d
755 16.30 -0.67 0.11 V d
755 16.30 -0.58 0.06 R d
755 7.44 -1.05 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
#      9.8698    0.3268    16.6001    0.6792    0.3355    0.0114
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      9.50    0.84 -1.113    0.221 21.22    0.24 0.1699 0.0127

```