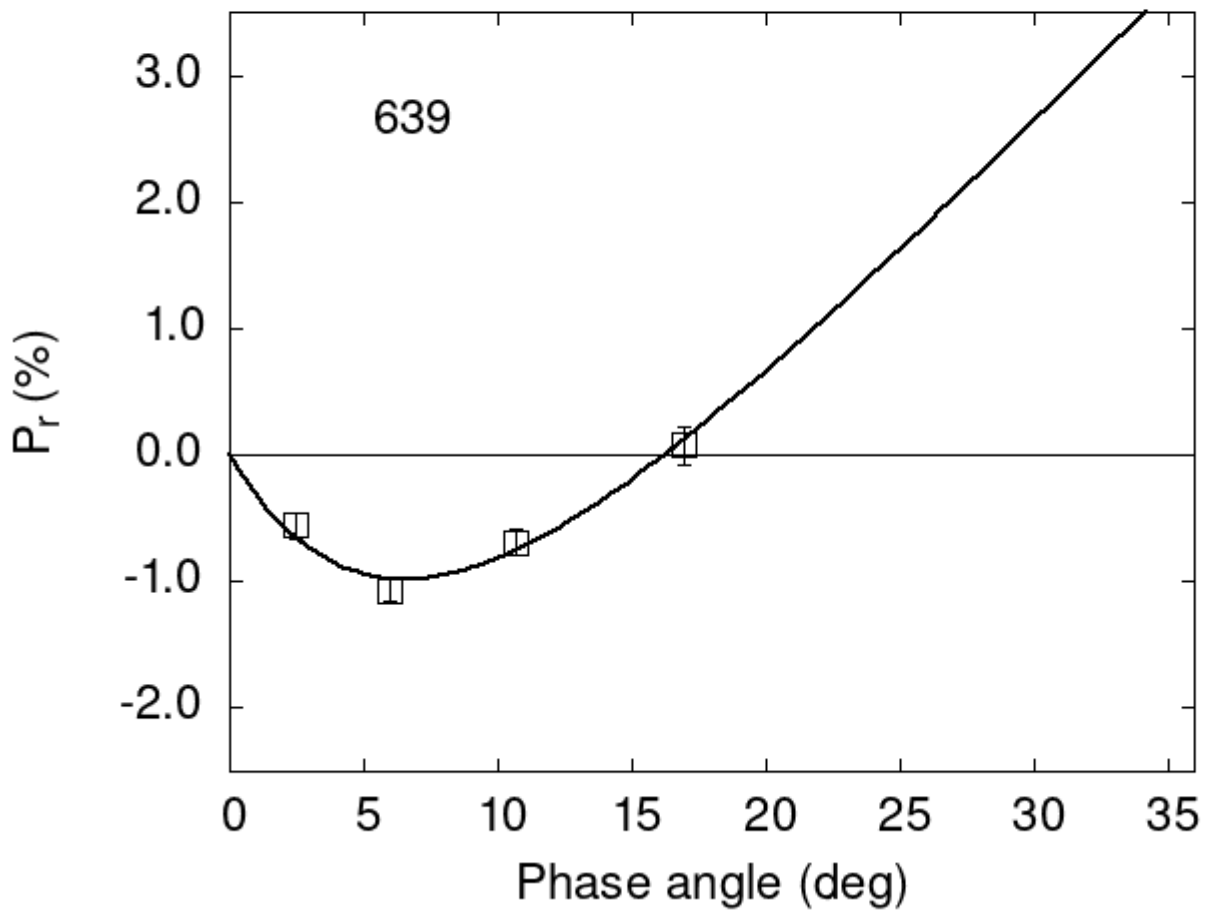


# Catalogue of Asteroid Polarization Curves

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.

```
639  2.47 -0.56 0.10 V f
639  5.95 -1.07 0.09 V f
639 10.66 -0.69 0.10 V f
639 16.95  0.08 0.15 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
#      3.7705      0.7576      6.6090      1.2283      0.2121      0.0378
#
#      Phmin      err      Pmin      err      Ph0      err      k      err
#      6.54      1.78 -0.982      0.595      16.24      0.25      0.1632      0.0412
```