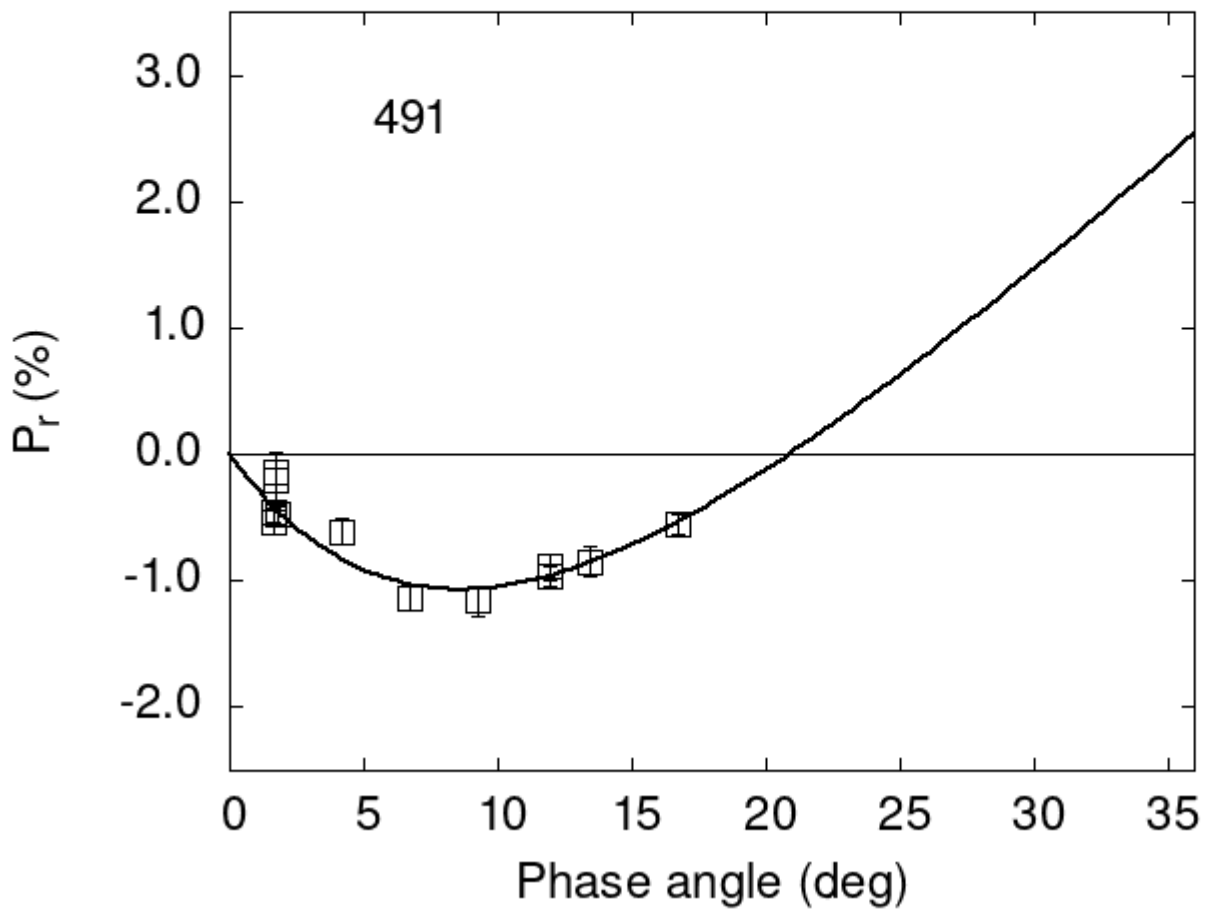


# Catalogue of Asteroid Polarization Curves

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.

491	6.69	-1.14	0.10	V	f
491	9.29	-1.16	0.12	V	f
491	11.93	-0.89	0.10	V	f
491	13.44	-0.85	0.12	V	f
491	1.67	-0.53	0.10	V	f
491	1.67	-0.46	0.08	R	f

```

491  1.69 -0.14 0.16 V f
491  1.69 -0.21 0.17 R f
491  1.80 -0.48 0.07 V f
491  1.80 -0.48 0.09 R f
491 11.93 -0.96 0.08 V a
491  1.67 -0.53 0.10 V b
491  1.67 -0.46 0.08 R b
491  1.69 -0.14 0.16 V b
491  1.69 -0.21 0.17 R b
491  1.80 -0.48 0.07 V b
491  1.80 -0.48 0.09 R b
491  4.20 -0.61 0.10 V h
491 16.70 -0.55 0.08 V h

```

## 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
#      4.4824      0.5968      9.2043      1.0066      0.1923      0.0229
#
#      Phmin      err      Pmin      err      Ph0      err      k      err
#      8.55      1.65 -1.068      0.448 20.90      0.28 0.1420 0.0248

```