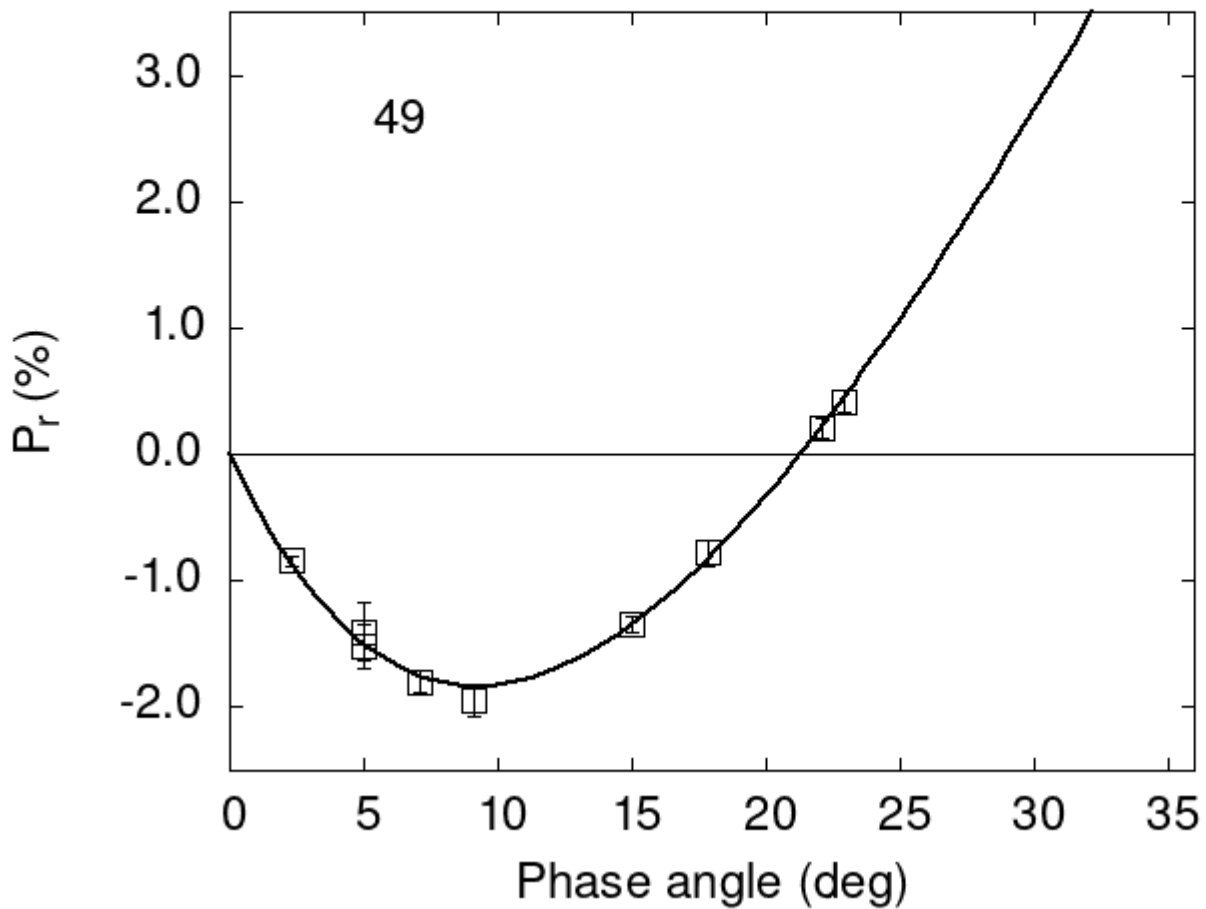


# Catalogue of Asteroid Polarization Curves

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.

49	9.14	-1.95	0.12	V	f
49	17.82	-0.78	0.10	V	f
49	22.13	0.21	0.08	V	f
49	5.00	-1.40	0.23	V	a
49	5.00	-1.52	0.18	R	a
49	22.90	0.42	0.08	V	a

```

49  2.30 -0.84 0.04 V a
49 15.00 -1.34 0.06 V a
49  7.10 -1.80 0.09 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
# 11.7161  1.0015 13.1784  0.8490  0.4406  0.0273
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
#      9.25  1.41 -1.834  0.623 21.32 0.15 0.2642 0.0319

```