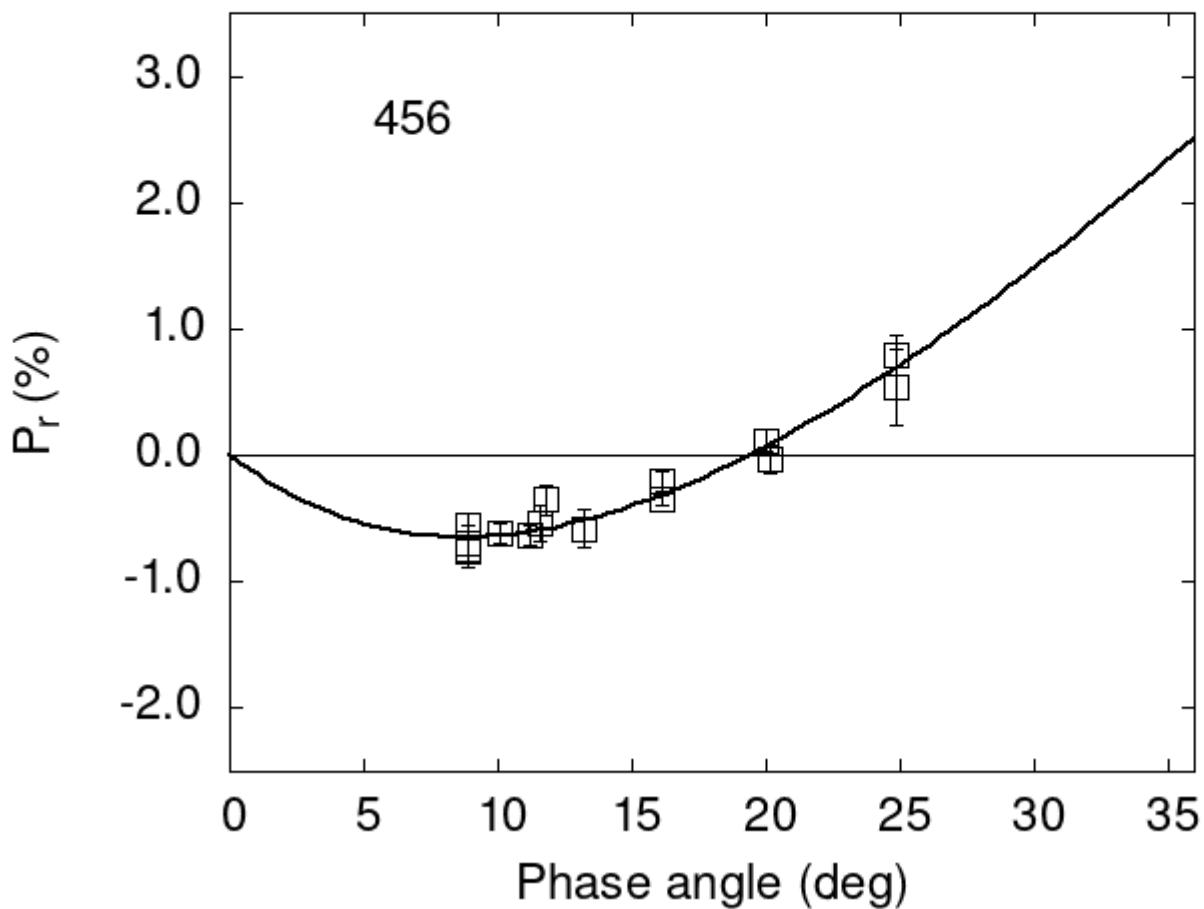


# Catalogue of Asteroid Polarization Curves

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.

456	11.57	-0.54	0.14	V	f
456	11.83	-0.35	0.12	V	f
456	13.21	-0.58	0.15	V	f
456	19.99	0.12	0.09	V	f
456	20.20	-0.03	0.11	V	f
456	16.13	-0.21	0.08	V	f

```

456 16.13 -0.35 0.04 R f
456 8.89 -0.75 0.10 V f
456 8.89 -0.55 0.10 R f
456 11.20 -0.63 0.08 V a
456 10.10 -0.61 0.08 V a
456 8.90 -0.70 0.14 V a
456 8.90 -0.76 0.12 R a
456 24.90 0.54 0.30 V a
456 24.90 0.79 0.16 R a
456 16.13 -0.21 0.08 V b
456 16.13 -0.35 0.04 R b
456 8.89 -0.75 0.10 V b
456 8.89 -0.55 0.10 R b

```

## 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
# 6.0128  0.2020  15.6749  0.7140  0.2199  0.0058
#
#      Phmin     err      Pmin     err    Ph0      err      k      err
#     8.72   0.74 -0.648  0.133 19.43  0.37 0.1088  0.0070

```