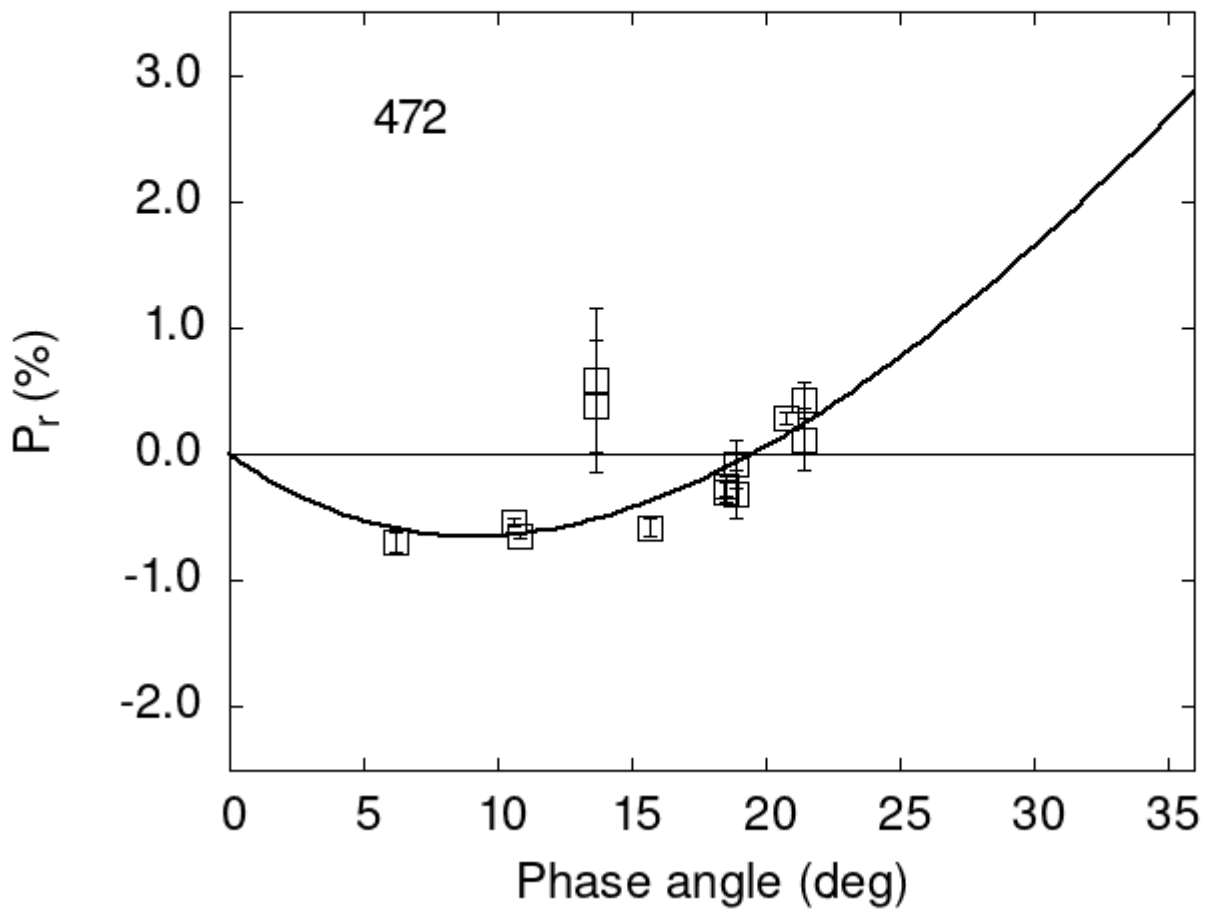


Catalogue of Asteroid Polarization Curves

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.

```
472 6.22 -0.69 0.08 V f
472 18.88 -0.08 0.19 V f
472 18.88 -0.31 0.19 R f
472 21.47 0.43 0.14 V a
472 21.47 0.12 0.24 R a
472 18.50 -0.30 0.08 V a
```

```

472 18.50 -0.25 0.08 R a
472 20.80 0.29 0.05 V a
472 15.70 -0.58 0.07 V a
472 10.60 -0.54 0.03 V a
472 10.80 -0.65 0.02 V a
472 13.66 0.59 0.57 V b
472 13.66 0.38 0.52 R b
472 18.88 -0.08 0.19 V b
472 18.88 -0.31 0.19 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 α 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
# 10.8926  0.3196 23.0666  0.7275  0.3187  0.0076
#
#      Phmin  err  Pmin  err  Ph0  err  k      err
#      9.07  0.98 -0.651  0.155 19.49 0.35 0.1159 0.0097

```