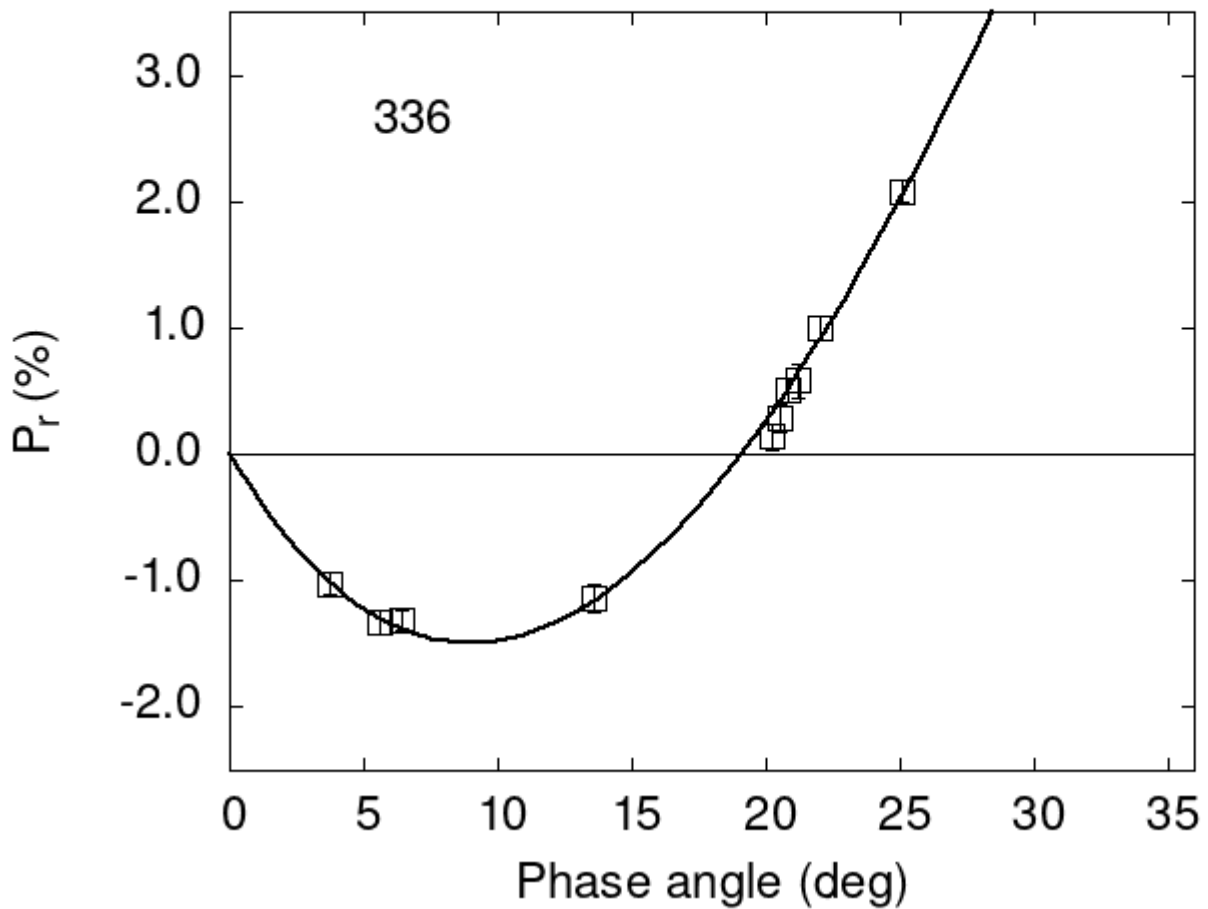


# Catalogue of Asteroid Polarization Curves

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.

336	3.75	-1.02	0.08	V	f
336	5.61	-1.33	0.09	V	f
336	20.22	0.14	0.10	V	f
336	20.55	0.28	0.11	V	f
336	20.87	0.51	0.09	V	f
336	21.19	0.58	0.13	V	f

```

336 22.06  1.00 0.10 V f
336 25.06  2.08 0.09 V f
336 13.60 -1.14 0.11 V a
336  6.40 -1.31 0.08 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
# 33.0445    1.2453    26.7637    0.8454    0.8825    0.0197
#
#      Phmin    err    Pmin    err    Ph0    err    k      err
#      8.99    1.30 -1.494    0.469 19.10    0.14 0.2776 0.0306

```