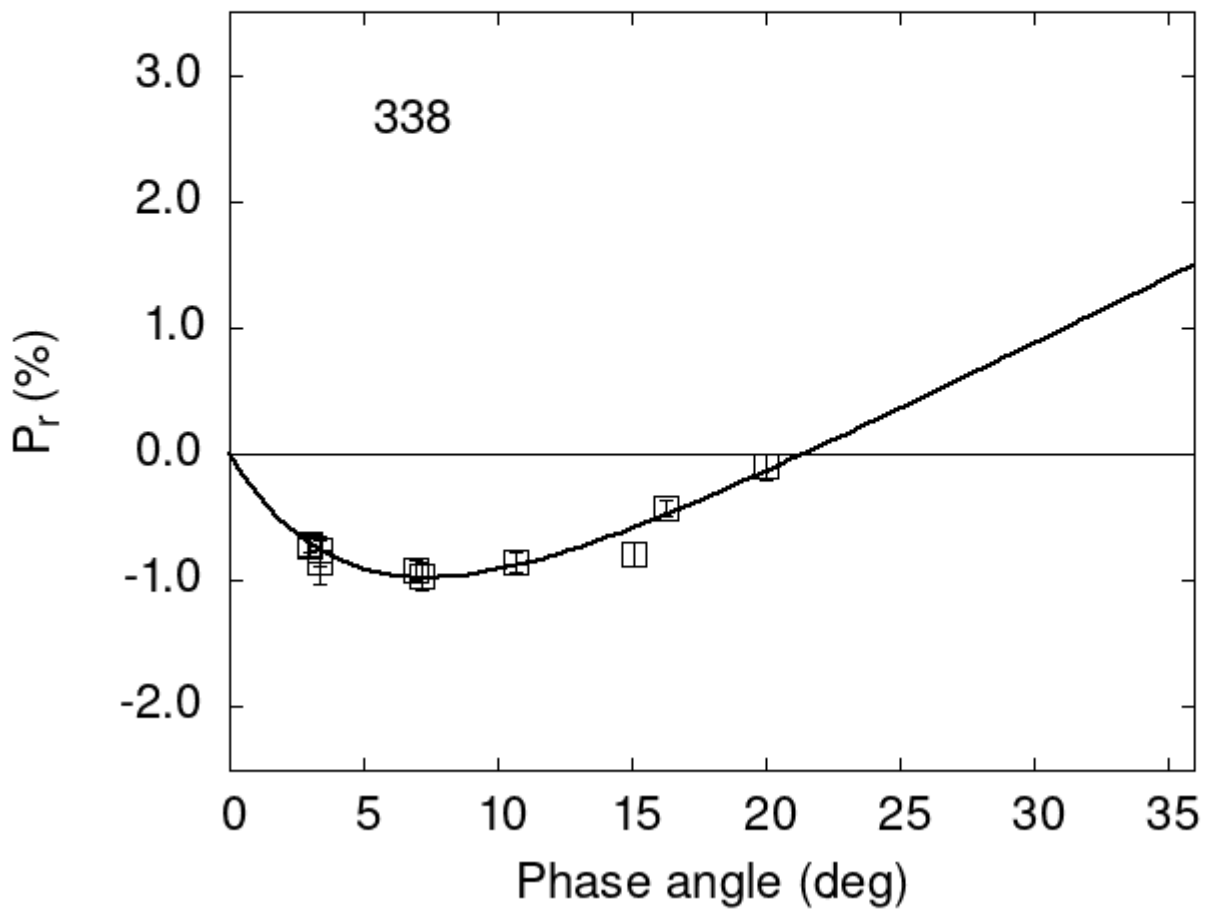


# Catalogue of Asteroid Polarization Curves

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.

```
338 6.94 -0.92 0.08 V f
338 10.67 -0.85 0.08 V f
338 15.12 -0.79 0.09 V f
338 20.02 -0.10 0.10 V f
338 7.14 -0.97 0.10 V f
338 7.14 -0.97 0.11 R f
```

```

338 3.00 -0.73 0.08 V a
338 3.00 -0.71 0.07 R a
338 3.33 -0.85 0.17 V a
338 3.33 -0.76 0.12 R a
338 7.14 -0.97 0.10 V b
338 7.14 -0.97 0.11 R b
338 16.30 -0.43 0.06 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
#      2.2763    0.5443    5.0505    1.2134    0.1047    0.0261
#
#      Phmin    err    Pmin      err    Ph0      err      k      err
#      7.37    1.83 -0.975    0.496  21.42    0.41  0.0982  0.0266

```