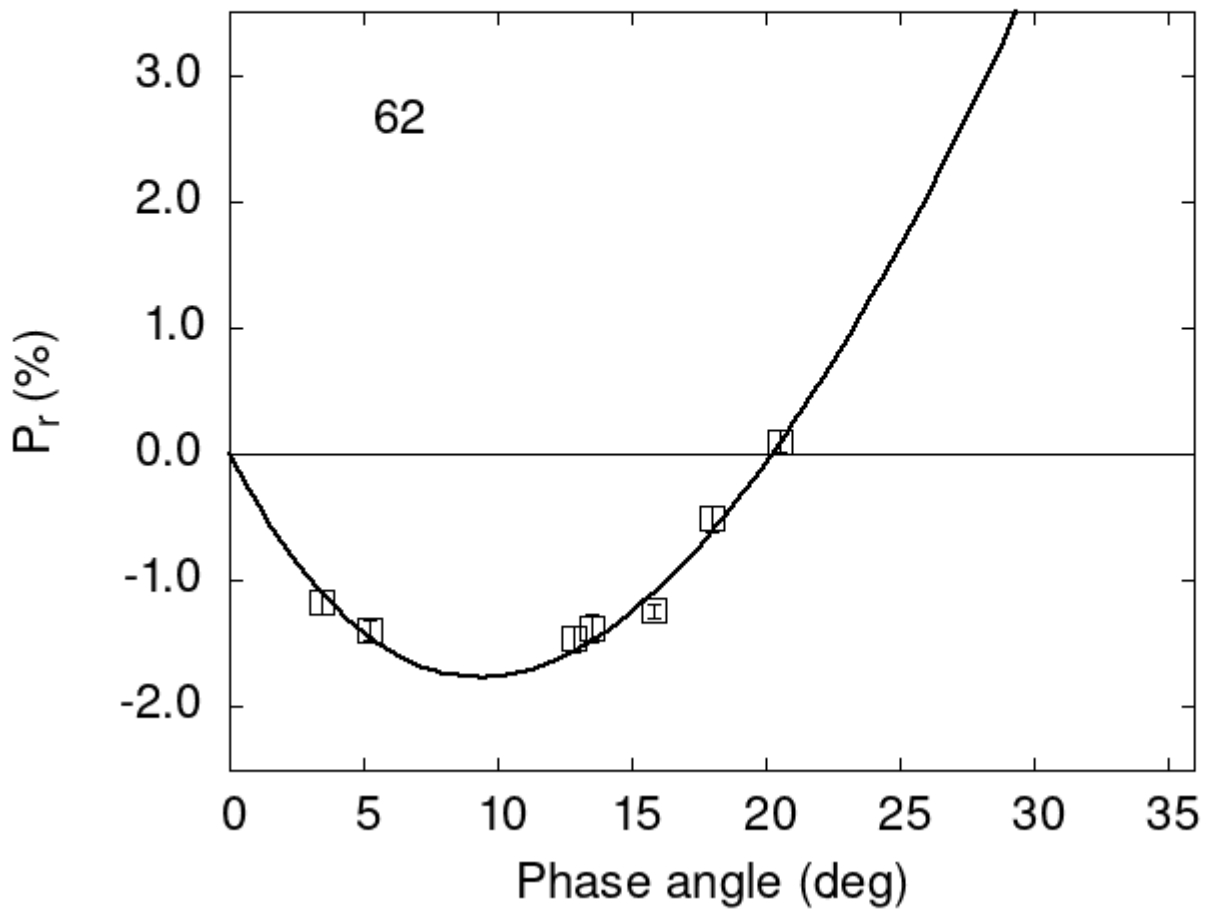


# Catalogue of Asteroid Polarization Curves

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.

|    |       |       |      |   |   |
|----|-------|-------|------|---|---|
| 62 | 3.40  | -1.17 | 0.09 | V | f |
| 62 | 12.84 | -1.46 | 0.10 | V | f |
| 62 | 17.97 | -0.51 | 0.10 | V | f |
| 62 | 20.51 | 0.10  | 0.09 | V | f |
| 62 | 5.20  | -1.39 | 0.08 | V | a |
| 62 | 15.80 | -1.24 | 0.06 | V | a |

62 13.50 -1.38 0.11 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
# 24.9988  0.8787  21.5935  0.5932  0.7509  0.0229
#
#      Phmin   err  Pmin   err  Ph0   err   k     err
#      9.35  1.06 -1.764  0.422 20.25  0.13 0.2978 0.0279
```