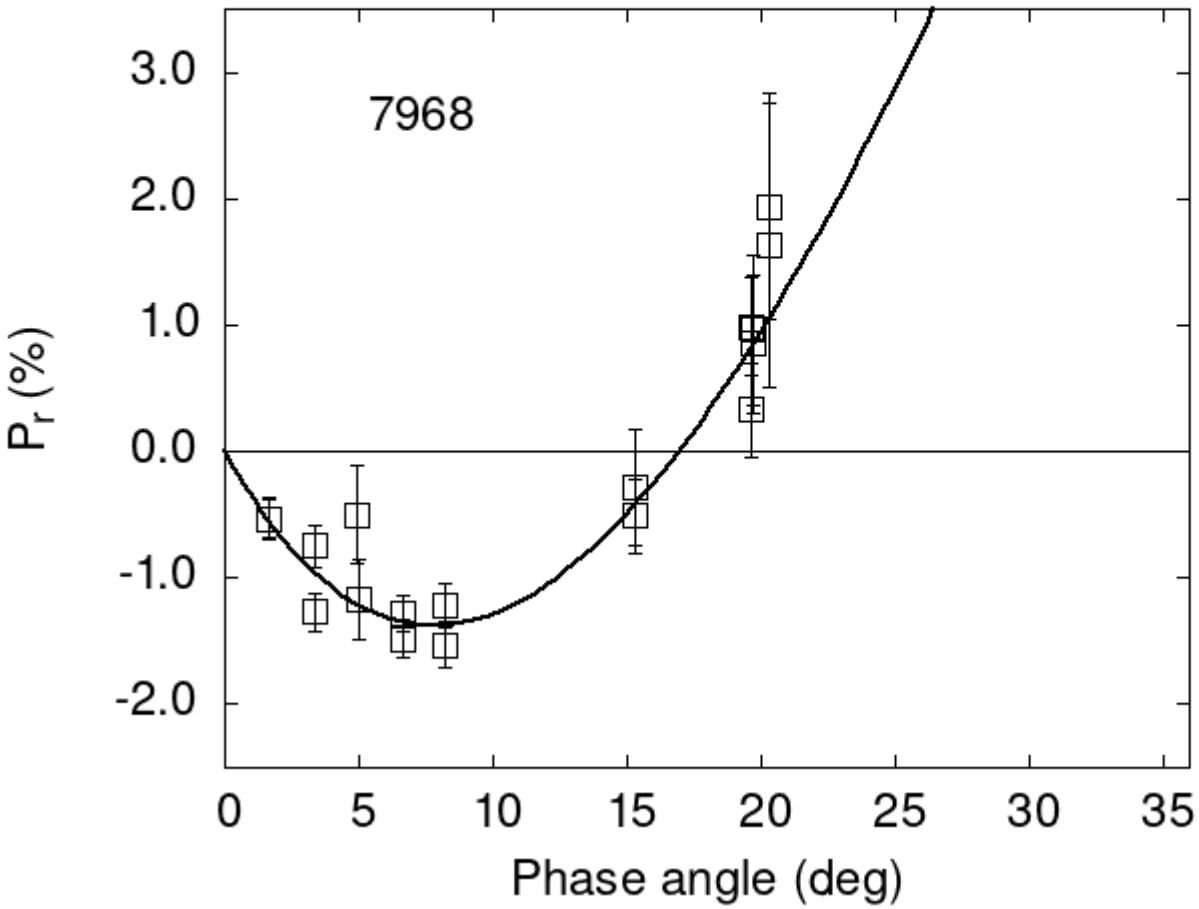
Catalogue of Asteroid Polarization Curves

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.

```
7968 19.69  0.96 0.59 R a
7968 19.69  0.85 0.55 V a
7968  3.33 -0.75 0.16 R a
7968  3.34 -1.27 0.15 V a
7968  1.65 -0.53 0.16 R a
7968  1.65 -0.53 0.15 V a
```

```
7968  4.97 -1.17 0.31 R a
7968  4.96 -0.50 0.39 V a
7968  6.67 -1.28 0.14 R a
7968  6.66 -1.48 0.15 V a
7968  8.22 -1.22 0.17 R a
7968  8.21 -1.53 0.18 V a
7968 15.33 -0.28 0.46 R a
7968 15.32 -0.51 0.29 V a
7968 19.61  0.33 0.37 R a
7968 19.61  0.99 0.39 V a
7968 20.29  1.63 1.13 R a
7968 20.28  1.94 0.90 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 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
#   18.5098   0.8128  17.4756   0.7153   0.6773   0.0271
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      7.81  1.11 -1.381  0.422 16.99  0.14 0.2766 0.0323
```