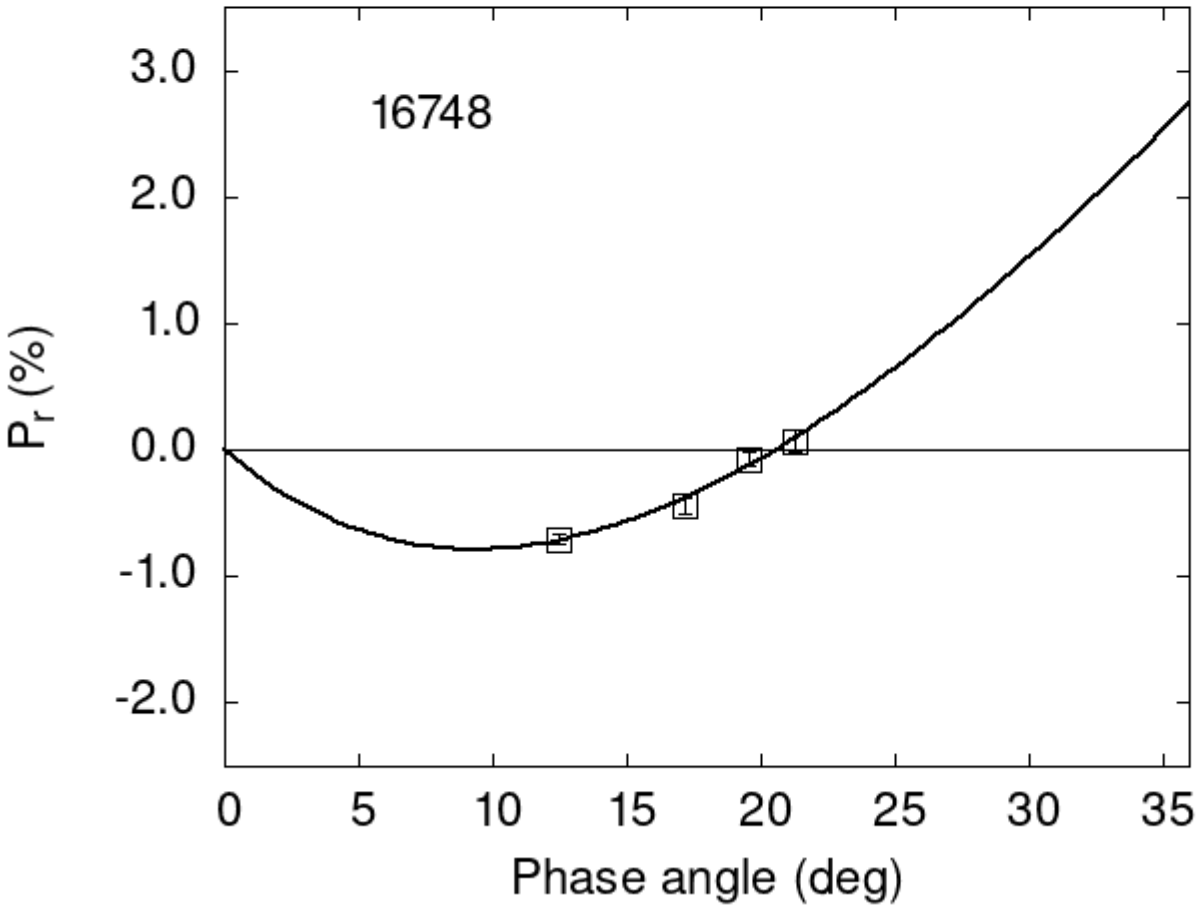
Catalogue of Asteroid Polarization Curves

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.

```
16748 21.32  0.07 0.09 V a
16748 19.60 -0.07 0.06 V a
16748 17.18 -0.44 0.06 V a
16748 12.44 -0.71 0.04 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
#    8.7535   0.3077  18.7615   1.0181   0.2834   0.0127
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      9.35  1.18 -0.786  0.222 20.56  0.31 0.1274 0.0139
```