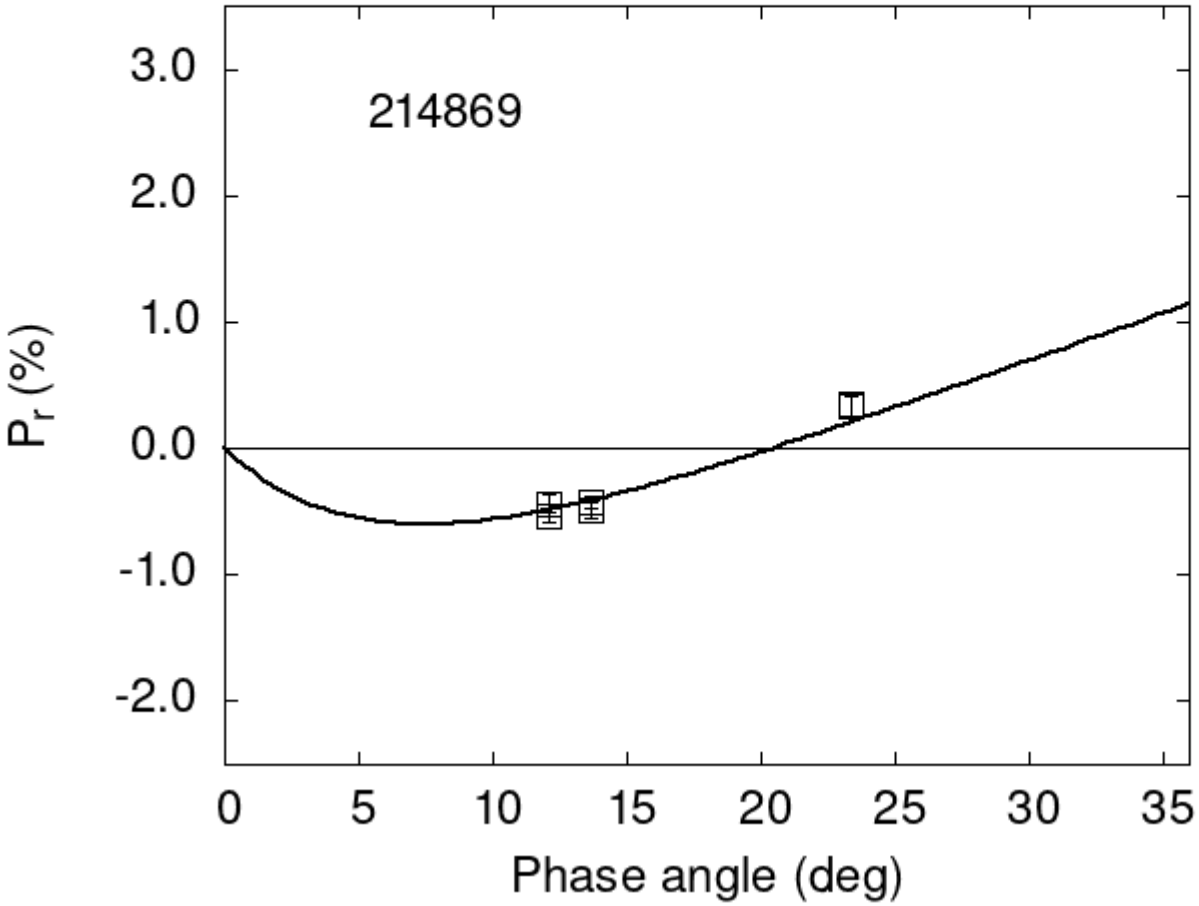
Catalogue of Asteroid Polarization Curves

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.

```
214869 12.08 -0.53 0.05 V a
214869 12.08 -0.44 0.07 R a
214869 13.69 -0.43 0.05 V a
214869 13.69 -0.49 0.07 R a
214869 23.36  0.35 0.10 V a
214869 23.36  0.33 0.09 R a
```

```
214869 99.22  5.99 0.16 V a
214869 99.22  5.42 0.25 R 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
#    1.6000   0.1626   5.7000   1.8312   0.0760   0.0025
#
#     Phmin   err   Pmin    err  Ph0    err    k      err
#      7.45  0.83 -0.601  0.218 20.46  0.59 0.0683 0.0070
```