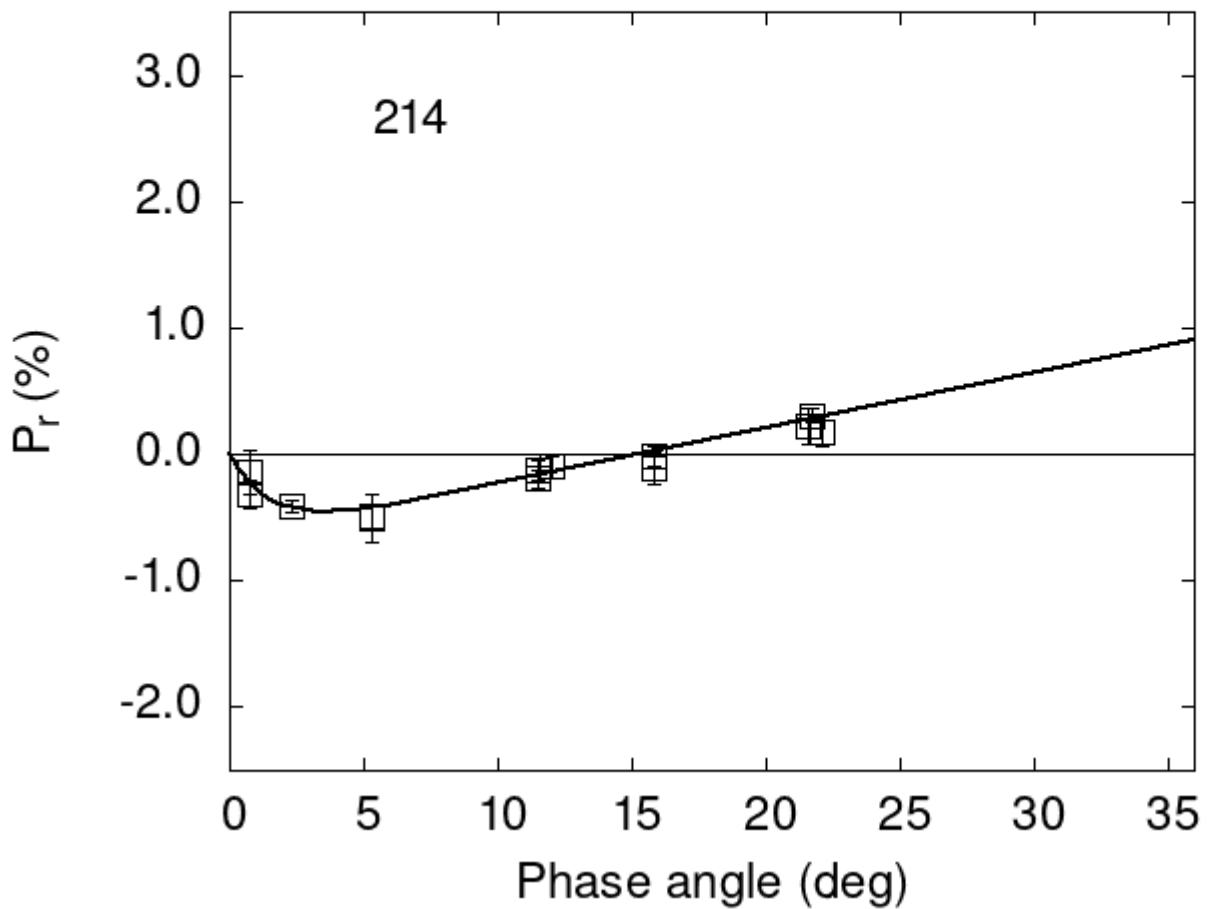


# Catalogue of Asteroid Polarization Curves

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.

```
214 12.04 -0.10 0.09 V f
214 21.58 0.22 0.14 V f
214 22.12 0.18 0.12 V f
214 11.48 -0.12 0.08 V f
214 11.48 -0.19 0.07 R f
214 11.49 -0.12 0.08 V a
```

```

214 11.49 -0.19 0.07 R a
214 0.72 -0.14 0.17 V a
214 0.72 -0.31 0.11 R a
214 5.34 -0.50 0.19 V a
214 5.34 -0.49 0.09 R a
214 21.70 0.31 0.05 V a
214 15.82 -0.01 0.08 V a
214 15.82 -0.11 0.13 R a
214 2.30 -0.41 0.04 V a
214 11.48 -0.12 0.08 V b
214 11.48 -0.19 0.07 R b

```

## 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
#      0.6741    0.0744    1.5396    0.4644    0.0439    0.0050
#
#      Phmin    err    Pmin    err    Ph0    err    k      err
#      3.54    0.65 -0.451  0.084 15.35  0.91 0.0438 0.0050

```