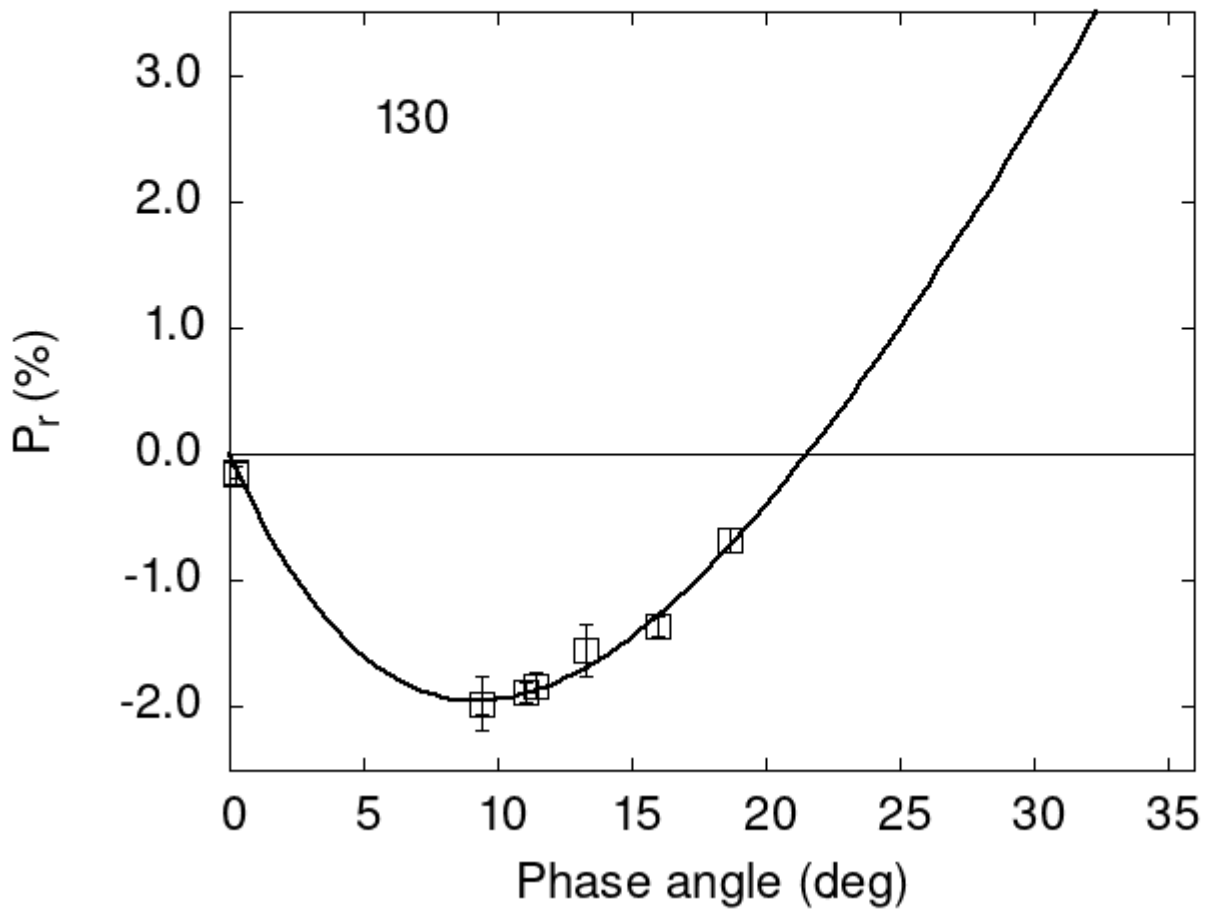


# Catalogue of Asteroid Polarization Curves

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.

```
130  9.44 -1.97 0.09 V f
130 11.06 -1.88 0.08 V f
130 11.41 -1.83 0.10 V f
130 16.02 -1.36 0.08 V f
130  0.26 -0.14 0.05 V a
130  0.26 -0.16 0.07 R a
```

130 18.70 -0.68 0.09 V a  
 130 9.40 -1.97 0.21 V a  
 130 13.30 -1.55 0.21 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
# 11.0831  0.3907  12.1947  0.5962  0.4260  0.0152
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.24  0.63 -1.952  0.316 21.59  0.15 0.2712 0.0172
```