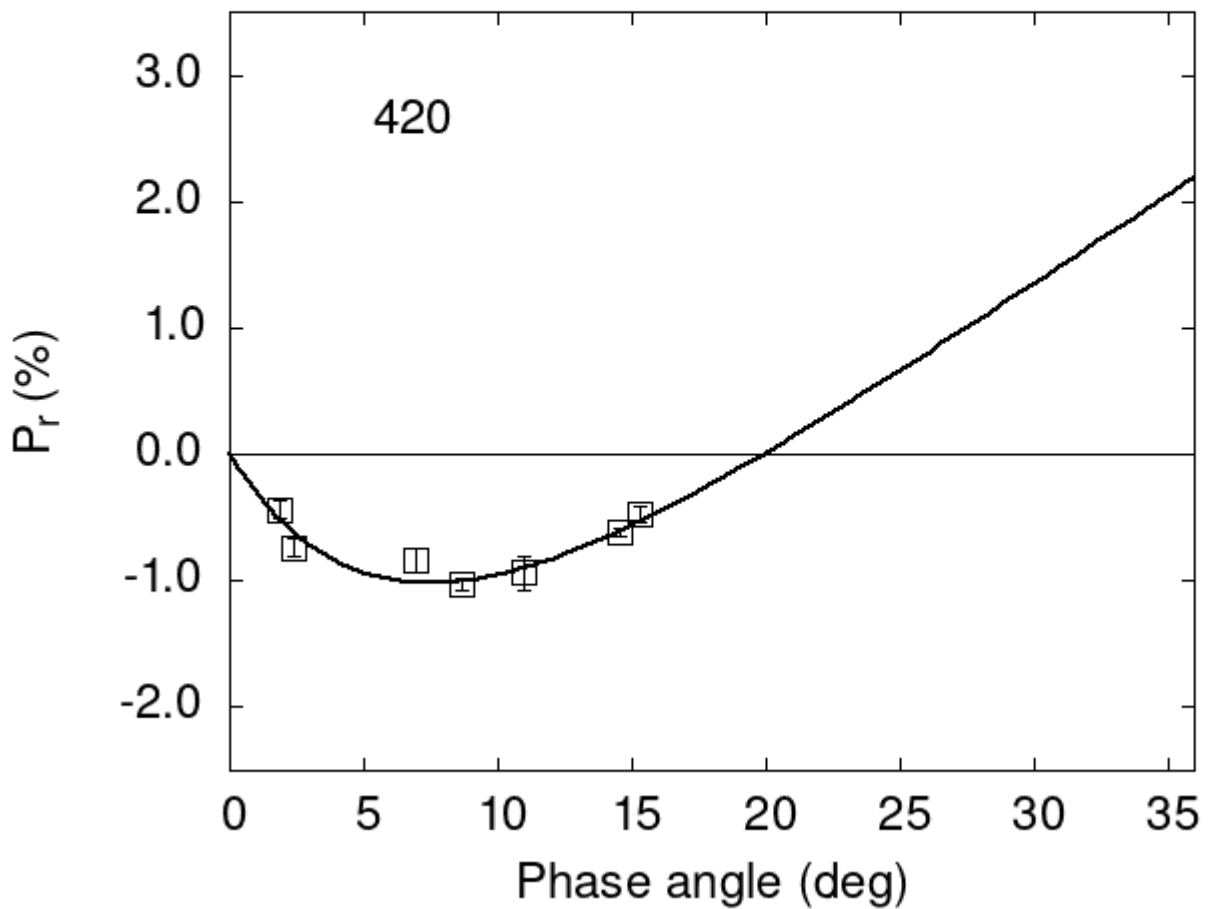


Catalogue of Asteroid Polarization Curves

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.

```
420  6.93 -0.84 0.09 V f
420 10.96 -0.94 0.13 V f
420  8.70 -1.03 0.05 V a
420  1.90 -0.44 0.07 V a
420  2.40 -0.74 0.07 V a
420 15.30 -0.47 0.06 V a
```

420 14.60 -0.62 0.03 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
#      2.9613    0.3228    6.1313    0.7011    0.1427    0.0164
#
#      Phmin    err    Pmin    err    Ph0    err    k    err
#      7.47    0.98 -1.019    0.286 19.94    0.32 0.1241 0.0172
```