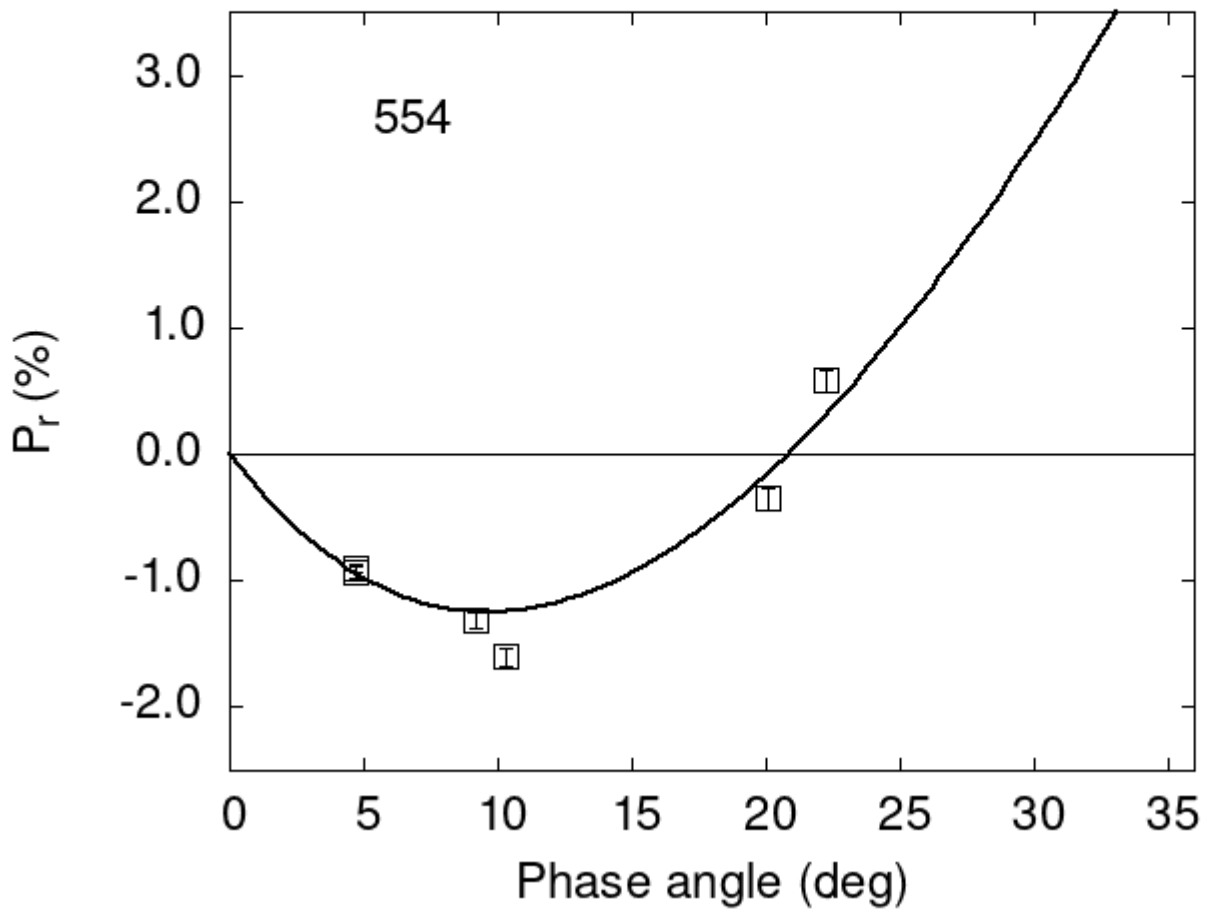


Catalogue of Asteroid Polarization Curves

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.

```
554 20.07 -0.35 0.09 V f
554 22.26 0.58 0.09 V f
554 4.74 -0.93 0.05 V f
554 4.74 -0.90 0.03 R f
554 9.20 -1.31 0.06 V a
554 10.30 -1.60 0.07 V a
```

```

554 4.74 -0.93 0.05 V b
554 4.74 -0.90 0.03 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 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
# 20.2691  0.8632  24.1656  0.6544  0.5620  0.0173
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.68  1.33 -1.250  0.362 20.83  0.19 0.2078 0.0230

```