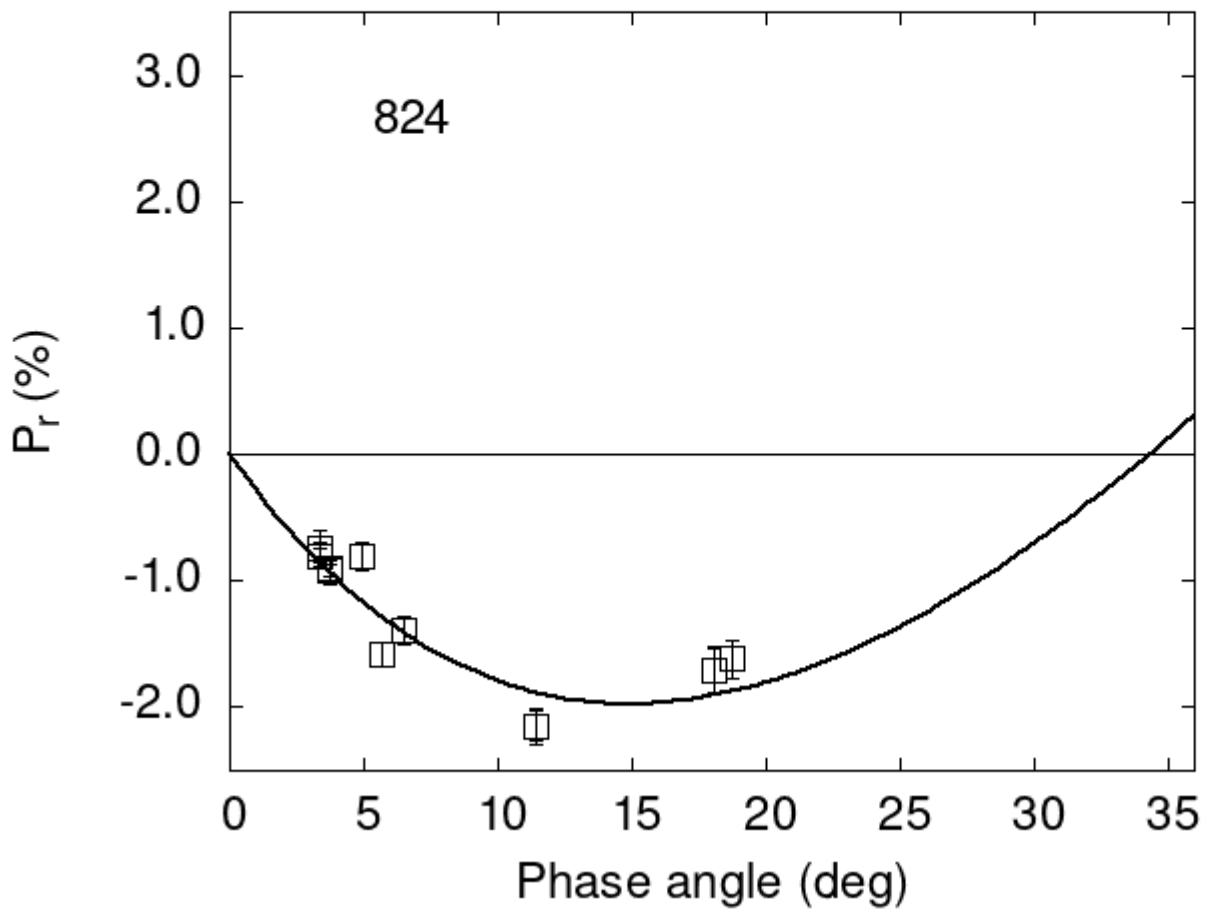


Catalogue of Asteroid Polarization Curves

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.

824	3.35	-0.80	0.10	V	f
824	3.74	-0.92	0.10	V	f
824	5.66	-1.58	0.10	V	f
824	6.53	-1.39	0.11	V	f
824	11.41	-2.15	0.14	V	f
824	13.76	-2.59	0.23	V	f

```

824 18.11 -1.71 0.19 V f
824 18.71 -1.62 0.15 V f
824 3.35 -0.74 0.14 V a
824 3.35 -0.80 0.05 V a
824 3.74 -0.90 0.06 V a
824 3.74 -0.92 0.05 V a
824 4.90 -0.81 0.11 V a
824 11.41 -2.15 0.12 V a
824 13.76 -2.59 0.21 V a
824 18.11 -1.71 0.18 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
# 12.8795  0.5754  21.5689  0.9841  0.2987  0.0176
#
#      Phmin  err  Pmin  err  Ph0  err  k  err
# 14.94  1.62 -1.974  0.440 34.35 0.23 0.1772 0.0187

```