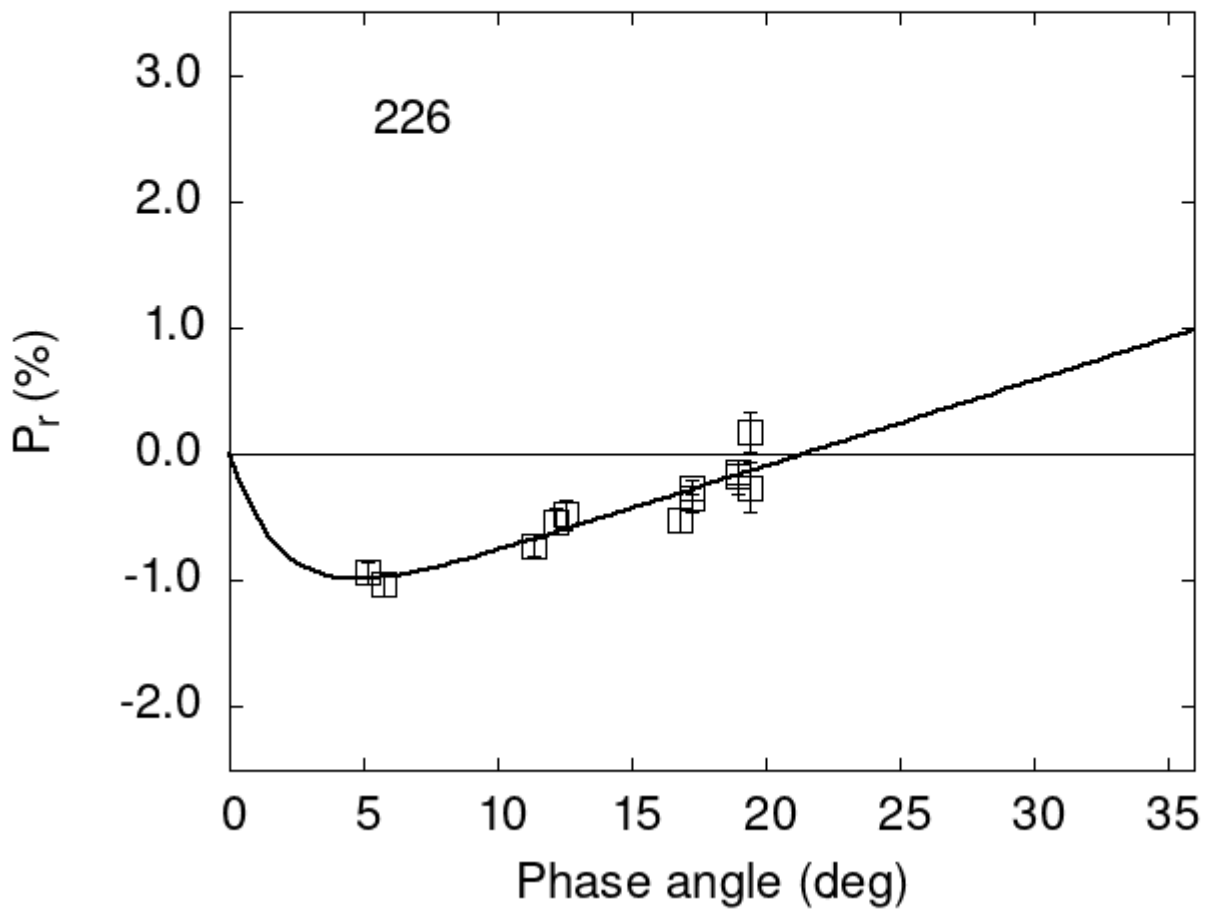


# Catalogue of Asteroid Polarization Curves

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.

226	5.12	-0.94	0.09	V	f
226	5.72	-1.03	0.09	V	f
226	11.36	-0.72	0.09	V	f
226	12.21	-0.53	0.10	V	f
226	12.56	-0.48	0.12	V	f
226	16.83	-0.52	0.10	V	f

226 19.43 -0.26 0.20 V a  
 226 19.43 0.18 0.16 R a  
 226 17.23 -0.26 0.06 V a  
 226 17.23 -0.35 0.10 R a  
 226 18.96 -0.18 0.13 V a  
 226 18.96 -0.14 0.09 R 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		
#	1.4447	0.2179	2.0271	0.9039	0.0674	0.0133		
#								
#	Phmin	err	Pmin	err	Ph0	err	k	err
#	4.78	1.33	-0.986	0.252	21.42	0.59	0.0674	0.0133