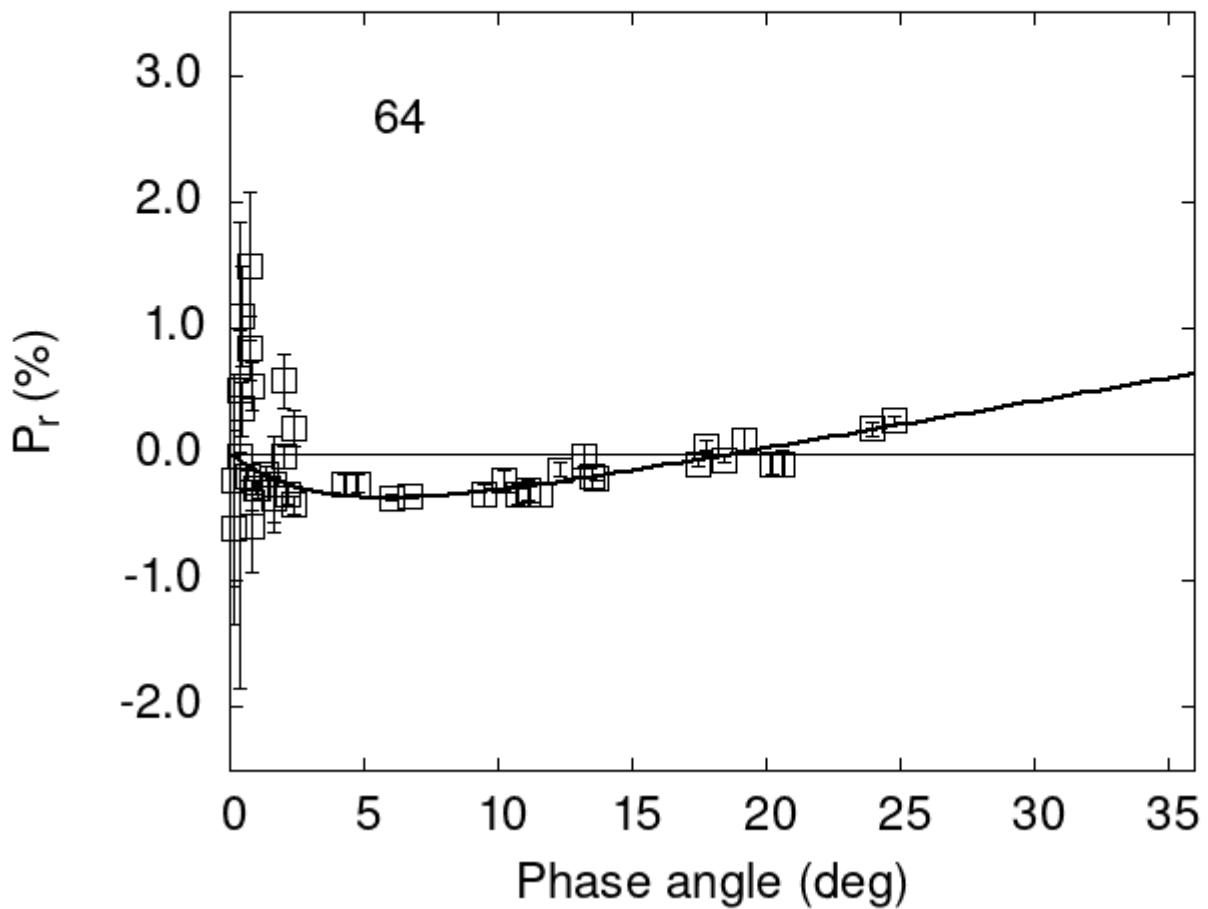


# Catalogue of Asteroid Polarization Curves

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.

64	9.49	-0.32	0.09	V	f
64	10.21	-0.21	0.08	V	f
64	10.79	-0.32	0.08	V	f
64	11.10	-0.29	0.08	V	f
64	19.21	0.12	0.09	V	f
64	20.25	-0.07	0.08	V	f

64	20.60	-0.07	0.10	V	f
64	6.69	-0.33	0.02	G	a
64	6.04	-0.34	0.03	G	a
64	13.69	-0.19	0.02	G	a
64	17.81	0.07	0.04	G	a
64	18.43	-0.04	0.02	G	a
64	24.01	0.20	0.05	G	a
64	0.76	1.49	0.59	V	a
64	0.76	0.84	0.25	R	a
64	0.36	-0.01	1.84	V	a
64	0.36	0.50	0.49	R	a
64	0.12	-0.20	0.84	V	a
64	0.12	-0.58	0.77	R	a
64	0.46	1.09	0.40	V	a
64	0.46	0.36	0.21	R	a
64	0.84	-0.57	0.36	V	a
64	0.84	0.54	0.19	R	a
64	1.62	-0.24	0.38	V	a
64	1.62	-0.35	0.18	R	a
64	2.01	0.58	0.21	V	a
64	2.01	-0.02	0.09	R	a
64	2.40	0.21	0.14	V	a
64	2.40	-0.40	0.07	R	a
64	4.80	-0.23	0.07	V	a
64	11.60	-0.32	0.09	V	a
64	12.30	-0.12	0.06	V	a
64	13.20	-0.01	0.09	V	a
64	13.50	-0.17	0.10	V	a
64	0.80	-0.38	0.06	R	a
64	0.69	-0.17	0.04	R	a
64	1.01	-0.27	0.07	R	a
64	1.34	-0.15	0.05	R	a
64	2.20	-0.32	0.07	R	a
64	4.22	-0.23	0.08	R	a
64	24.80	0.27	0.03	V	a
64	17.50	-0.07	0.02	V	a
64	1.00	-0.26	0.05	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		
#	0.6976	0.0614	3.5714	0.6641	0.0370	0.0031		
#								
#	Phmin	err	Pmin	err	Ph0	err	k	err
#	5.94	0.62	-0.345	0.067	18.74	1.11	0.0360	0.0032