

SSPHAIN: Spectroscopic Survey of PHAs In the Near-infrared (preliminary results)

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7TH IAA PLANETARY DEFENSE

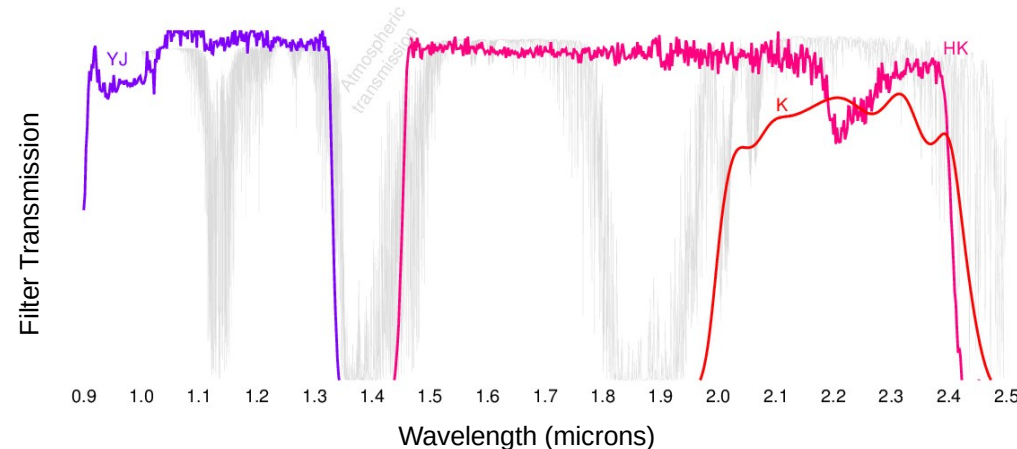
CONFERENCE

26-30 April 2021

Online Event

The survey

- Near-Earth Asteroids: Potentially Hazardous Asteroids (and also Low DeltaVs)
- Framework: ESA-P3NEOI Observational Support → spectroscopic data of NEAs using different ground based telescopes.
- Telescope: 10.4m Gran Telescopio Canarias (La Palma, Islas Canarias, Spain) – Instrument: EMIR (Espectrografo Multiobjeto Infrarrojo / *Infrared Multiobject Spectrograph*) → Wavelength range: 0.9-2.5 microns

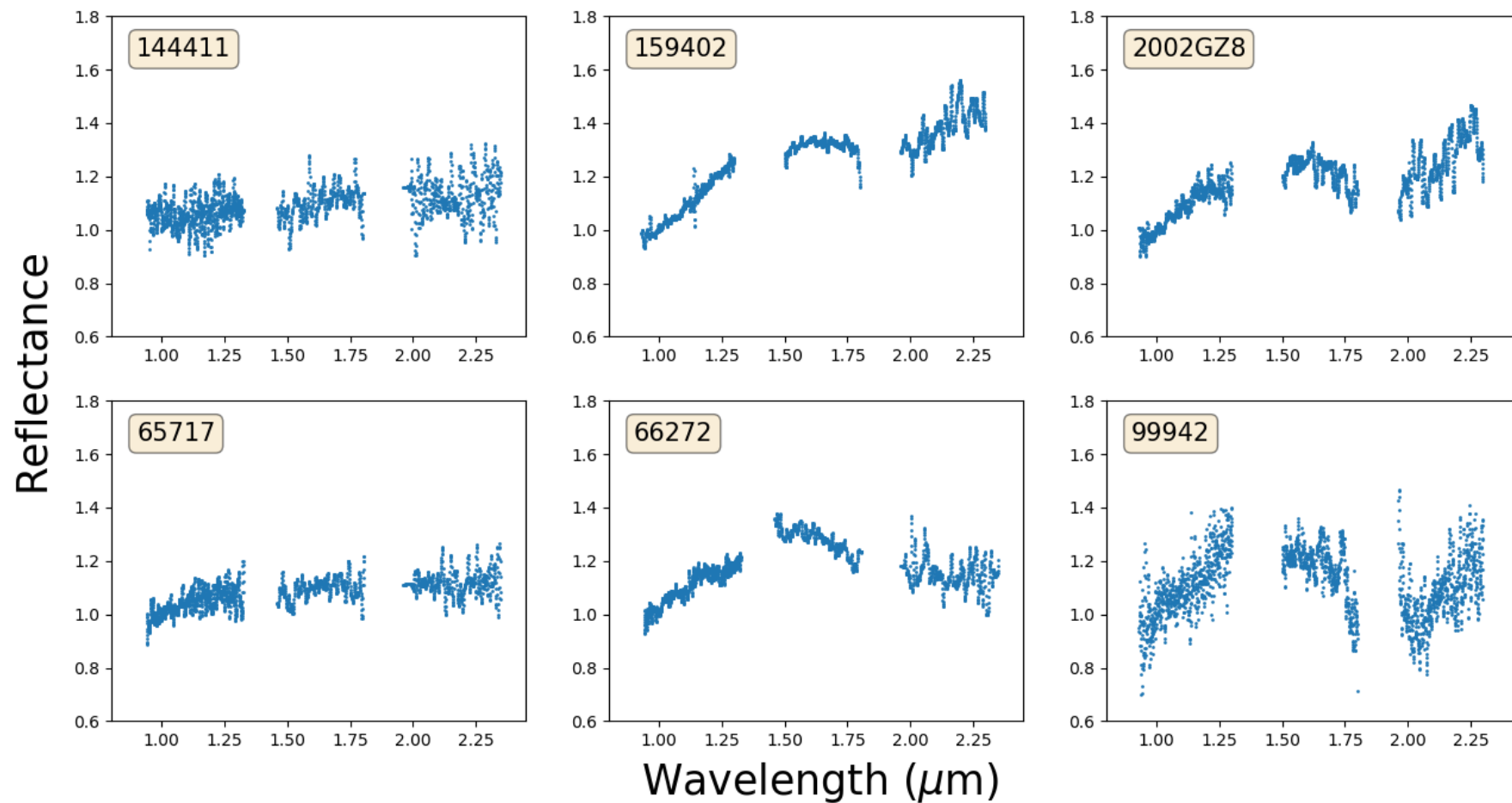


Resolution:

YJ grism: 3,61 A/pix
HK grism: 6,85 A/pix

Observed objects

Name	Obs. date	H	Taxonomy
65717	2020-11-23	20,7	Cg
66272	2020-11-23	17,1	Sr
144411	2020-11-23	16,5	Xk
159402	2020-12-05	16,5	Sr
2002 GZ8	2020-12-05	18,8	S
9942	2021-01-29	19,7	Sq
332446	2021-01-31	19,7	...
21088	2020-12-31	14,3	...
90147	2020-12-31	18,4	...
88188	2020-12-28	16,0	...



Summary

- A total of 10 NEAs (~15 hours of observation)
- Reduced data: 33% primitive – 66% rocky
- Target numbers: ~50 objects in total (3-4 semesters, depending on the observational conditions)

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