

	GENERAL / MULTIDISCIPLINARY	A.Y.*	A.Y. 2023/24			A.Y. 2024/25		
			CONTENT SPECIFIC SEMINAR 1**	CONTENT SPECIFIC SEMINAR 2**	CONTENT SPECIFIC SEMINAR 3**	CONTENT SPECIFIC SEMINAR 1**	CONTENT SPECIFIC SEMINAR 2**	CONTENT SPECIFIC SEMINAR 3**
CURRICULUM 1	Observations of the Universe through Space PhD Projects, Goals, Methodologies and Links, Carlo Baccigalupi, SISSA, March 1st, 2023, 16:00	2022/2023	Astroparticle Physics in Space with Cosmic Rays, Speaker Roberto Battiston, March 27th, 16:00, 2024	Bursting and cool slowly rotating stellar zombies, Speaker Nanda Rea, April 24th, 2024, 16:00 https://us02web.zoom.us/j/7050444609?pwd=enRnVUtUaTlYMXZLTmtiI2tybXBGZz09	Constraints on Neutrino Physics from Space Observations, Speaker Martina Gerbino, May 22th, 2024, 16:00	Multi-Messenger Astronomy through Space, Speaker Gabriele Ghisellini, March 26th, 2024, 16:00 (TBD)	Multi-Messenger Astronomy through Space, Speaker Luigi Stella, April 30th, 2025 16:00 (TBD)	Operations of Space Probes, Speaker Anna Gregorio, May 28th, 16:00 (TBD)
CURRICULUM 2	Fundamental and exploratory space plasma physics: current and future heliospheric missions, A. Retinò (CNRS - Paris) February 15 11-12 A.M.	2022/2023	Radiation Belts. G. Reeves (Los Alamos National Laboratory). April-September	Earth: A magnetic planet at risk. A. De Santis (INGV Roma 2), TBD	Space observation fast geophysical phenomena (earthquakes, tsunamis, volcanoes) , Roberto Battiston, TBD	Space Weather and Space Climate, TBD		
CURRICULUM 3	From Space to Earth and back. Giovanni Pratesi (UniFI), online, 14 June 2023 h. 11:00 a.m.	2022/2023	Mathematics for Planetary Defense, Prof. Giacomo Tommei (University of Pisa) - Giovedì 16 maggio alle 11. ID riunione 879 9461 4839 Passcode 345592 Link di invito https://unitn.zoom.us/j/87994614839?pwd=cEtZER1dIZiTnNjWjRCQldpSm03QT09	Planetary Geology: open issues and future perspectives. Lucia Marinangeli (UniCH), online, 6-10 May 2024	The exploration of the Solar System: current and future plans, Speaker Prof. Roberto Orosei (INAF), 18 april 2024 10:00 a.m. https://unitn.zoom.us/j/88987362284?pwd=VlVlKzJVNXRuK2taM2R5TXNYTzRxdz09 ID riunione: 889 8736 2284 Codice d'accesso: 615392	Space mission life cycle, Andrea Argan, April 2025	The EnVision mission to Venus (speaker TBD), TBD	The present and future of the characterization of exoplanetary atmospheres, Valerio Nascimbeni, TBD
CURRICULUM 4	Life Science in Space, Speaker TBD, online, period TBD	2023/2024 2nd semester	Resolution of inflammation: a game of Lipid networks, Dr. Alessandro Leuti, Università Campus Bio-Medico di Roma, online, Spring 2024	Multisensory Functioning in Space, Prof. Massimiliano Zampini, CIMeC, Università di Trento May 21, 2024, at 3 p.m. Zoom Link: https://unitn.zoom.us/j/7471889896 Passcode: 19824	Changes in brain structure and the development of SANS during long-duration spaceflight. Prof. Donna Roberts, MD Medical University of South Carolina Department of Radiology and Radiological Science Charleston, SC, USA , 27 maggio 2024	Impact of long duration spaceflight on the human vestibular system and the brain. Prof. Dr Floris L Wuylts Head of Lab for Equilibrium Investigations and Aerospace (LEIA), University of Antwerp Vertigo expert – European Institute for Otolaryngology HNS St Augustinus Hospital – Wilrijk - Belgium	Space Radiation risks and human exploration. Prof. Angela Maria Rizzo. Università degli Studi di Milano	Recent advances on ISRU and ISFR technologies for deep space exploration. Prof. Giacomo Cao. Università degli Studi di Cagliari
CURRICULUM 5	Design of a space mission: the technological point of view - Speaker Cristian De Santis - Period TBD Email: cristian.desantis@roma2.infn.it	2024/2025	Titolo: Low Gain Avalanche Detectors and Their Applications Speaker: Matteo Centis Vignali, FBK Anno: 2024 Periodo: 12 giugno ore 15:00 Email:mcentisvignali@fbk.eu Entra Zoom Riunione https://infn-it.zoom.us/j/94981588544?pwd=S0R1VnEyTmdhREhrV0kzbzRGUEd3Zz09 ID riunione: 949 8158 8544 Codice d'accesso: 962701	AMS missione - Speaker: G. Ambrosi (INFN) 18 aprile 2024, 11:30 - Email: giovanni.ambrosi@pg.infn.it Entra Zoom Riunione https://infn-it.zoom.us/j/96805620032?pwd=eXk3SVRheUdOYmhvTUo3dU92Q2dMUT09 ID riunione: 968 0562 0032 Passcode: 688945	Titolo: Miniaturization of photonic sensing systems on chip Speaker: Claudio Otón, SSSA Anno: 2024 Periodo: 5 febbraio ore 15:00 Email: claudio.oton@santannapisa.it ZOOM LINK: https://infn-it.zoom.us/j/98002606907?pwd=Q2srcldkcUVod3lzR2lnOW9ZZHBQQT09 ID riunione: 980 0260 6907	Titolo: Silicon Photomultipliers (SiPMs) Evolution and Space Applications Speaker: Dr. Fabio Acerbi, FBK Anno: TBD Periodo:TBD Email: acerbi@fbk.eu	Titolo: X-Ray spectrometry with energy dispersive detectors Speaker: Giancarlo Pepponi, FBK Anno: TBD Periodo:TBD Email: pepponi@fbk.eu	Seminario su elettronica di frontend per applicazioni spaziali
CURRICULUM 6	Titolo: "The sooner, the better!" - State of the art and technical challenges of small satellites and near-space platforms for technology demonstration; Speaker: Salvo Marcuccio (UniPI); 8 luglio 2024 ore 12	2023/2024				The EnVision mission to Venus (speaker TBD), TBD		
CURRICULUM 7		2024/2025	Titolo: How to communicate your participation in Space exploration? The Italian case from History to the present Space Economy Speaker: David Burigana, UniPD Anno: 2024 Periodo: 15 maggio ore ?	Titolo: How to communicate your participation in Space exploration? A Space Communication Lab: how to describe your research Speaker: David Burigana, UniPD Anno: 2024 Periodo: 10 giugno ore ?				

*Each curriculum must offer one general seminar in the three-year period for each doctoral cycle. All doctoral students must attend the 7 seminars offered

**Each curriculum must offer three specific seminars for each of the three academic years for each doctoral cycle. Each doctoral student is obliged to attend at least six of the seminars offered by the relevant curriculum during the three-year period.