



MINIMAL SURVIVAL GUIDE

Università di Bologna & INFN Bologna

28-30 January 2026



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



DarkSHunt



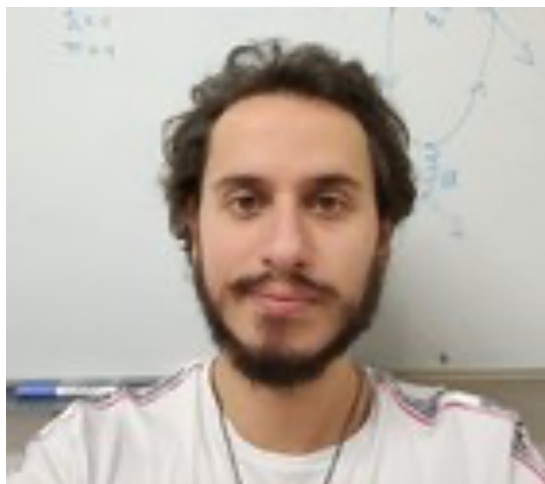
Funded by
the European Union



Istituto Nazionale di Fisica Nucleare

Local Team

I.e., the people who most likely know the answer to your question



Andrea Giovanni De Marchi



Claudia Garcia Garcia



Elina Merkel



Martina Ciprini



Maria Lucia Marcelli



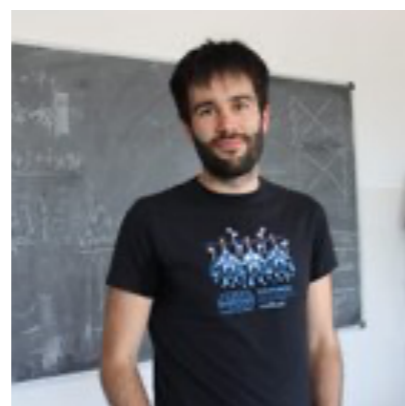
Sajib Sakhawat



Matteo Zandi



Michele Lucente



Xabier Marcano Imaz



Silvia Pascoli



Filippo Sala

Schedule

The meeting will take place in the "Aule Belmeloro", located in the building in Via Beniamino Andreatta, 8

Aula L

Wed 28/01 Thu 29/01 Fri 30/01 All days

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Afternoon 1 Registration Welcome and introduction

14:00	Registration	14:00 - 14:15
	Welcome and introduction	14:15 - 14:30
	Status of neutrino oscillations and impact of JUNO results	Eligio Lisi 14:30 - 15:00
15:00	New anomalies in the neutrino sector and physics BSM	Antonio Palazzo 15:00 - 15:12
	A strike of luck: the KM3NeT neutrino produced by evaporating burdened PBH.	Andrea Boccia 15:12 - 15:24
	Antiprotons and antideuterons from Primordial Black Holes	Lorenzo Stefanuto 15:24 - 15:36
	Coffee break	15:36 - 16:06
16:00	ALP production from light primordial black holes: The role of superradiance	Marco Manno 16:06 - 16:18
	Magnetic Monopole Constraints from Extragalactic Magnetic Fields and TeV Blazars	Mariia Khelashvili 16:18 - 16:30
	Cosmic-ray cooling by dark matter in astrophysical jets	Marco Chianese 16:30 - 16:42
	Neutrino signals from Dark Matter scatterings around blazars	Jacopo Nava 16:42 - 16:54
17:00	Discussion	16:54 - 17:30

Aula G

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Afternoon 2 Morning 2

09:00	Multiwavelength probes of dark matter	Marco Taoso 09:30 - 10:00
10:00	The Galactic Centre Excess via leptophilic dark matter in U(1) _L -L _j models	Jordan Koehler 10:00 - 10:12
	Searching for ALP DM decay across the electromagnetic spectrum	Jorge Terol Calvo 10:12 - 10:24
	Self-Consistency in Dark Matter Capture by Celestial Objects	Takuya Okawa 10:24 - 10:36
	Coffee break	10:36 - 11:06
11:00	Extragalactic non-thermal emission	Javier Israel Reynoso Cordova 11:06 - 11:18
	Addressing the Impact of Solar Modulation Systematic Uncertainties on Cosmic-Ray Propagation Models	Isabelle John 11:18 - 11:30
	Wallions: Ultralight Dark Matter from the Boundaries of Field Space	Mathias Becker 11:30 - 11:42
	Topological Portals to the Dark Sector	Nudzeim Selimovic 11:42 - 11:54
12:00	Seasons of Dark Matter Freeze-In Shaped by the Weather of the Early Universe	Tommaso Sassi 11:54 - 12:06
	Discussion	12:06 - 12:30
	Buffet lunch break	12:30 - 14:30
	BSM probes with stars	Edoardo Vitagliano 14:30 - 15:00
15:00	When boson stars collapse bubbles can nucleate	Nicklas Ramberg 15:00 - 15:12
	Detecting the QCD axion with the next galactic supernova	Ángel Gil Muyor 15:12 - 15:24
	Detecting light axions from supernovae in nearby galaxies	Francesca Lecce 15:24 - 15:36
	Coffee break	15:36 - 16:06
16:00	Light scalars from cold isolated neutron stars	Alessandro Lella 16:06 - 16:18
	Constraining reheating through PBH production and inflatonovae explosions	Francescopaolo Lopez 16:18 - 16:30
	Axion Quality: Challenges and Pathways to Improvement	Federico Mescia 16:30 - 16:42
	The Standard Model partial unification scale as a guide to new physics model building	Isabella Masina 16:42 - 16:54
17:00	Discussion	16:54 - 17:30

DINNER

Aula P

Wed 28/01 Thu 29/01 Fri 30/01 All days

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Conclusion and farewell Morning 3

09:00	News on particle cosmology	Enrico Morgante 09:30 - 10:00
10:00	Looking for new physics with CMB and 21 cm data	Daniele Gaggero 10:00 - 10:12
	Early-universe constraints on the electron mass	Michela Garramone 10:12 - 10:24
	The Bispectrum of the Relativistic Redshift Drift	Pierre Béchaz 10:24 - 10:36
	Coffee break	10:36 - 11:06
11:00	Searching for gravitational waves with pulsar timing arrays	Danilo Zecca 11:06 - 11:18
	Cosmic Gravitational Waves: a Gateway to Early Universe Physics	Ninetta Saviano 11:18 - 11:30
	Axion inflation in the regime of homogenous backreaction	Nadir Ijaz 11:30 - 11:42
	Quantum Recoherence in Presence of Excited States in the Early Universe	Dr Simone Scarlatella 11:42 - 11:54
12:00	An Introduction to f(R) Gravity and Cosmological Applications	Marco Calo' 11:54 - 12:06
	Discussion	12:06 - 12:30
	Conclusion and farewell	12:30 - 12:45

On the full day of Thursday (08:30 - 19:00) you can also use Aula P for discussions, meetings, etc.

Social activities

Coffee breaks Wednesday 15:36 - 16:06
Thursday 10:36 - 11:06 and 15:36 - 16:06
Friday 10:36 - 11:06

Buffet lunch break Thursday 12:30 - 14:00

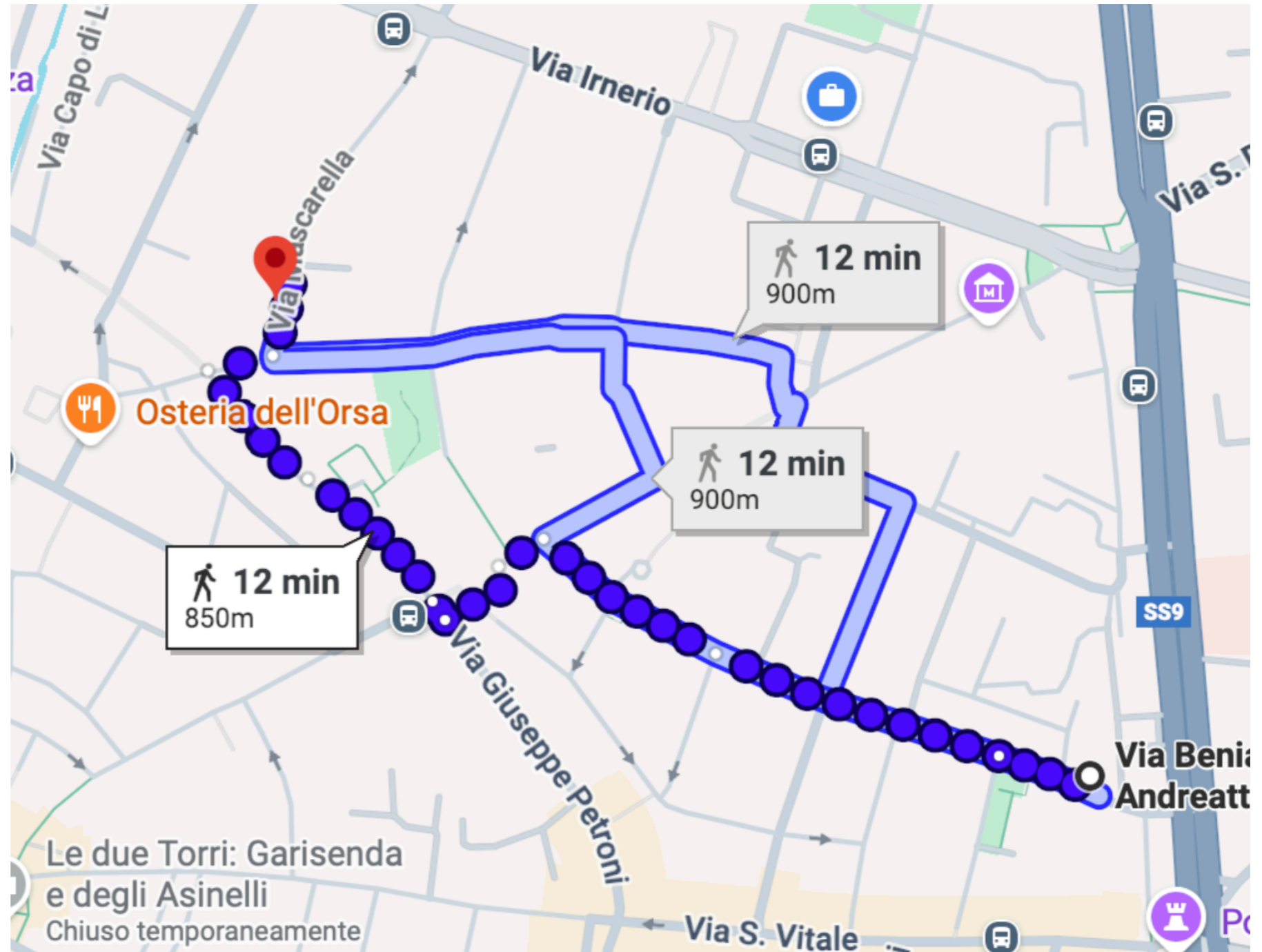
Social dinner Thursday at 20:00

Social dinner

When: Thursday at 20:00

Where: Cantina Bentivoglio, Via Mascarella 4/b

What: Bologna food!



Thank you for being here!