

TASP Meeting

INFN Iniziativa Specifica Theoretical Astroparticle Physics

Fiorenza Donato
Torino University & INFN

Torino 18-19 gennaio 2024

Thanks to

- Commissione Scientifica Nazionale IV
- Torino colleagues
- TAsP Responsabili Locali and colleagues
- Direzione INFN Sezione Torino and Dipartimento di Fisica

Theoretical **A**stroparticle **P**hysics at INFN

Bari (Eligio Lisi)

Bologna (Silvia Pascoli)

Ferrara (Isabella Masina)

Lecce (Francesco Depaolis)

LNF (Federico Mescia)

LNGS (Zurab Berezhiani)

Napoli (Ofelia Pisanti)

Padova (Francesco D'Eramo)

Pisa (Scilla Degl'Innocenti)

Roma1 (Alessandro Melchiorri)

Torino (Marco Taoso)

Trieste (Piero Ullio)

Responsabile Nazionale: Fiorenza Donato
(2021-2023, 2024-2026)

About 100 researchers, ~ 80 FTE



TAsP Research fields

Neutrino masses and mixings;

puzzles of dark energy and dark matter, including axion physics and primordial black holes;

observed baryon asymmetry of the universe;

physics of high-energy cosmic rays and gamma rays, and the connection of these messengers with gravitational waves;

particle physics at colliders relevant for cosmic ray physics;

cosmology and the interplay with particle physics;

inflation and the effective description of quantum fluctuations within the

program of the cosmological collider physics;

connection between dark sectors and their cosmological consequences.

TAsP Missions and Proposal

Fundamental research (→ papers)

Formation of young researchers (supervision of master and PhD students, postdocs, organization of schools)

Organization of national and international conferences and workshops

We have presented the **proposal for 2024-2026**

2 external referees. Proposal evaluated class A (**top**)

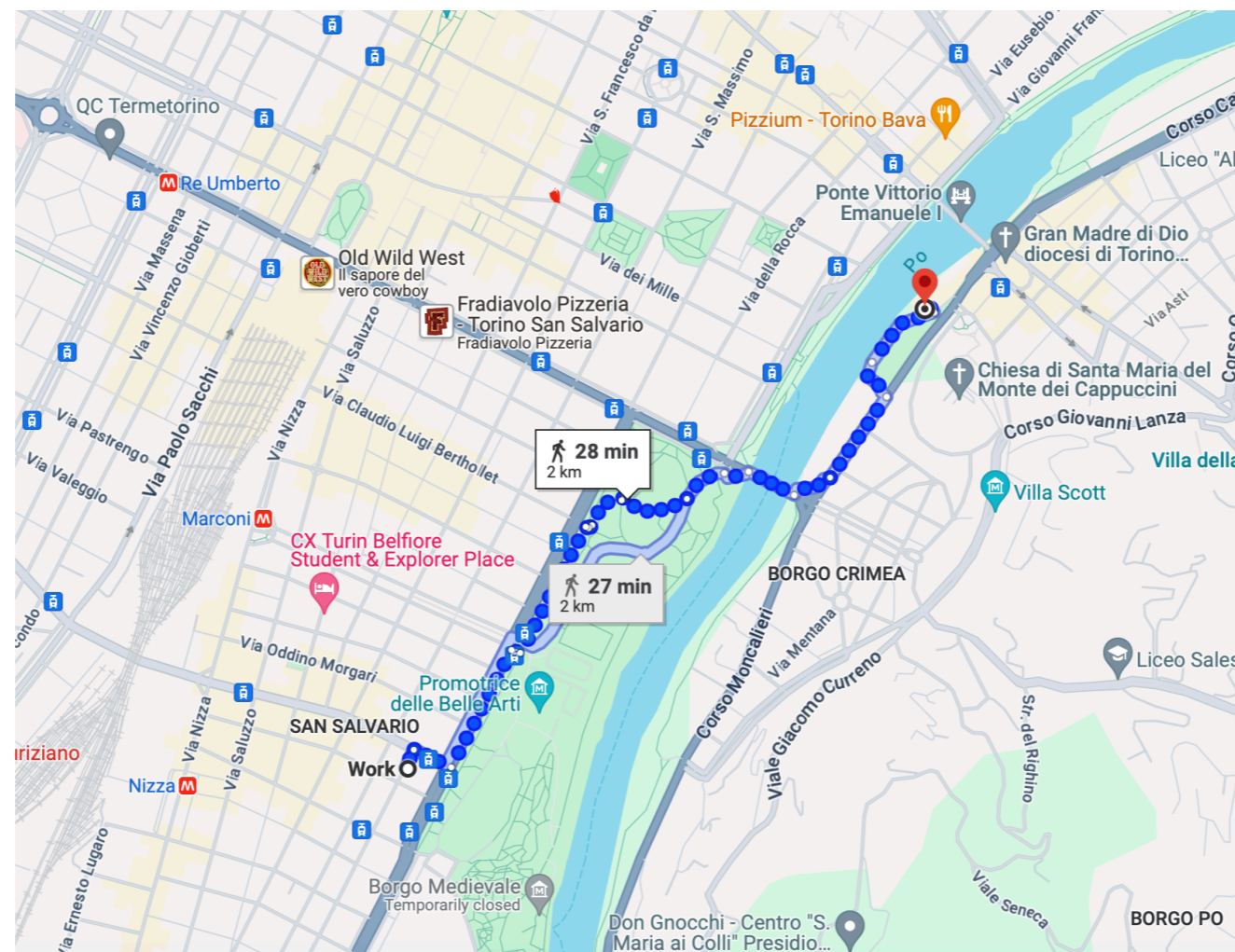
2 internal referees:

Daniele Montanino (TAsP, Lecce) and Martina Gerbino (INDARK, Ferrara)

Tonight's Dinner

Ristorante Esperia, corso Moncalieri 2

Inside Società Canottieri (Rowing) Esperia



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Enjoy
this time
together!!