

Welcome Words

Florian Nortier

Local Organizing Committee:

L. Darmé

A. Deandrea

F.N. Mahmoudi

F. Nortier

LIO International Conference 2025

New Approaches to Naturalness

20-23 May 2025 @ IP2I Lyon



**LABEX
LIO**
UNIVERSITÉ DE LYON



FACULTÉ des Sciences



Lyon 1



NUCLÉAIRE
& PARTICULES



Program:

- Gravity, Forms & Generalized Symmetries
- Cosmological Selection of Vacuum
- Flavor Puzzle
- Fixed Point & Compositeness
- Axion-Like Particles (ALPs), pseudo Nambu-Goldstone Bosons (pNGBs) & Accidents
- Ultraviolet (UV) / Infrared (IR) Mixing

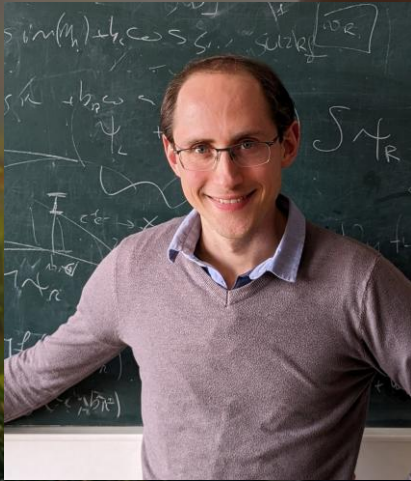
Senior talks: 45 + 10 min

Junior talks: 25 + 5 min

→ Please, be sharp in time

The Organizing Committee:

Please ask us for any question/issue



Luc
Darmé



Aldo
Deandrea



Nazila
Mahmoudi



Florian
Nortier

Institute of Physics of the 2 Infinities (IP2I)

- Université Claude Bernard Lyon 1
- CNRS Nucléaire & Particules



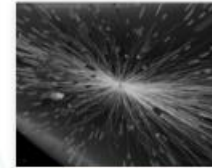
Infinitely small



Nuclear matter



Hadron physics

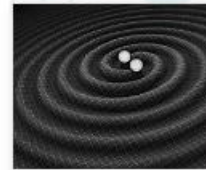


Particle physics

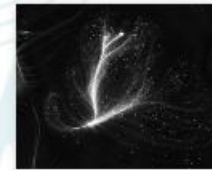
Infinitely large



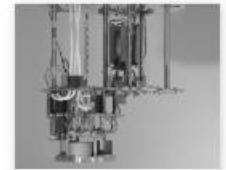
Neutrinos



Gravitational waves

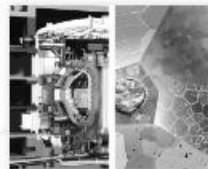


Cosmology



MANOIR

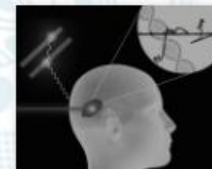
Interdisciplinary



Nuclear energy



Nanodroplets in
extreme conditions



Health



Muons for geosciences

Theory





Talks: Amphi Dirac

Upload your slides via Indico, or email to Florian

Work/Discussion Room: Library (4th Floor)

Coffee Breaks: Library (4th Floor)

Wifi: EduRoam or 'Visiteur' SSID (see email from Bruno Poli)

Group Photo: Wednesday @ 3:50 pm in front of Dirac building

Safety: Amphi Dirac will be closed if nobody stays inside during the coffee breaks

Lunches: DOMUS Restaurant (we need to be sharp in time)

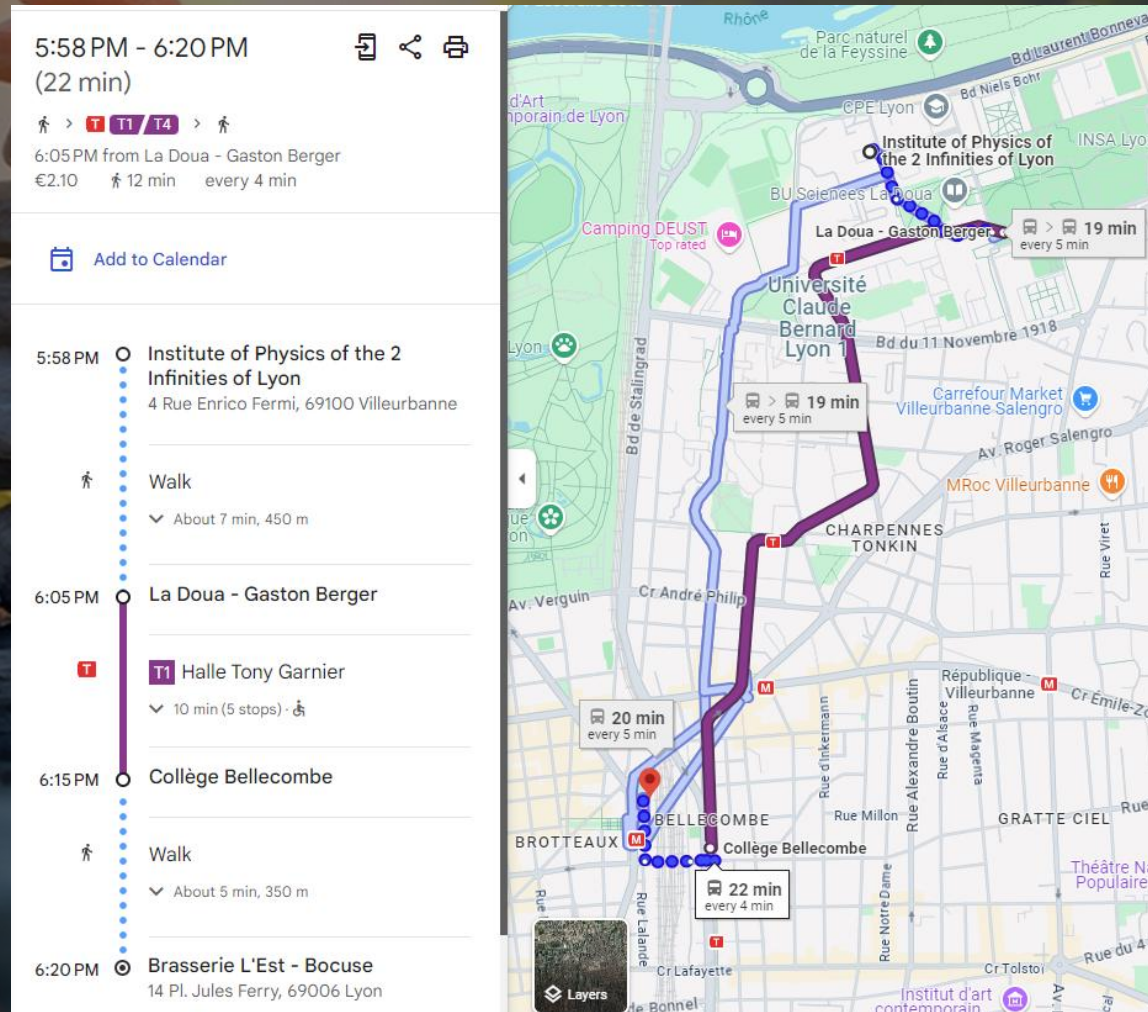
Dirac building closed during lunch time → Stay with the group



Conference Dinner: Wednesday @ 8:15 pm

Brasserie L'Est - Bocuse

14 Place Jules Ferry, 69006 Lyon

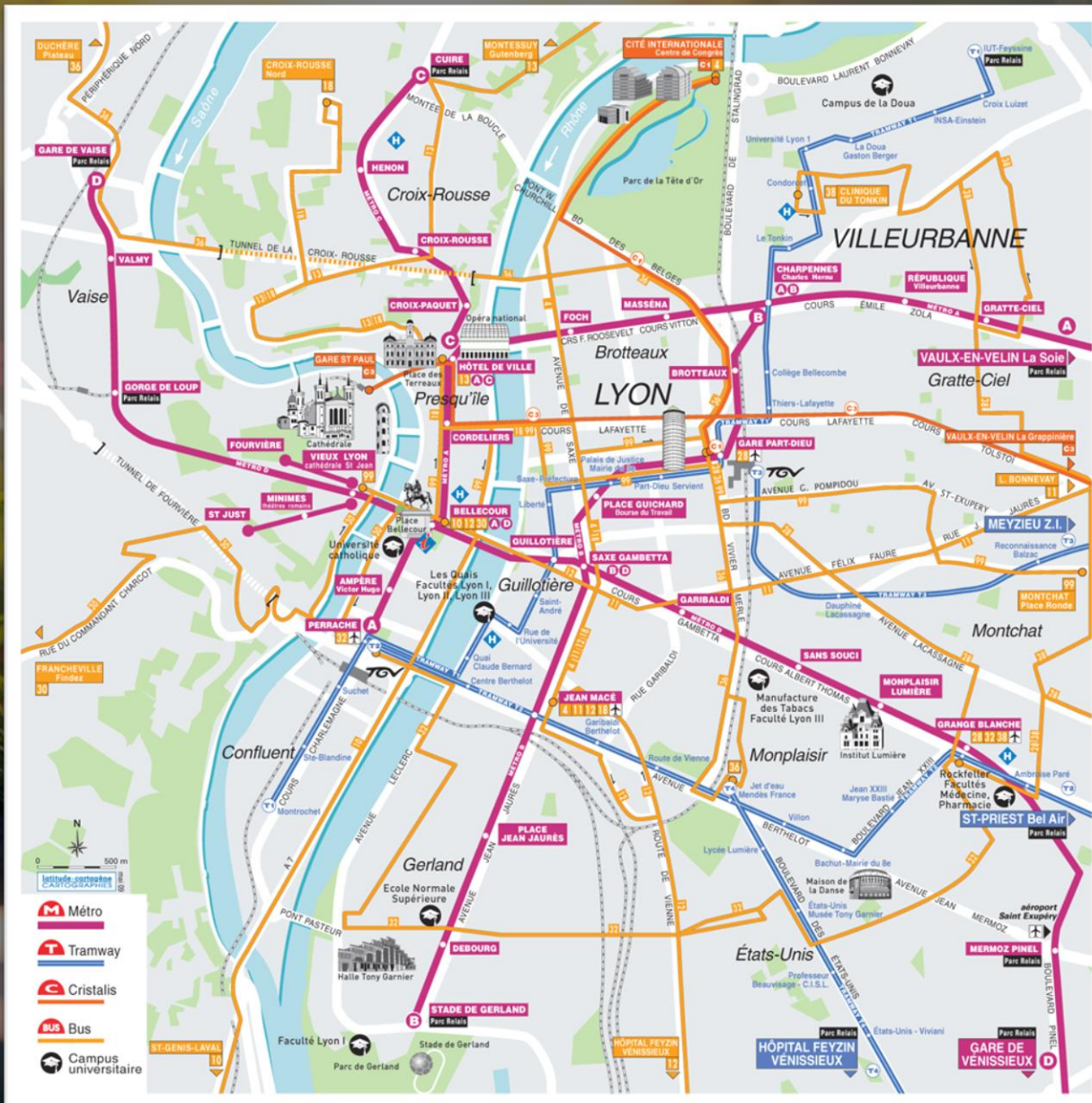


Lyon:

- UNESCO World Heritage Site
- 3rd largest city in France
- Birthplace of cinema, the French 'City of Lights'
- Renowned gastronomic capital of France

Key Attractions:

- Bouchons
- Fourvière
- Parc de la Tête d'Or
- Musée des Confluences
- Vieux Lyon
- Place Bellecour
- Place des Terreaux
- ...



Parc de la Tête d'Or: 10 min walk from IP2I

Zoo, botanical garden, lake, ... free entrance





Enjoy the Conference!