



UNIVERSITÀ  
DI TORINO



9<sup>th</sup> International Workshop on  
**High Precision for Hard Processes**

Centro Luigi Einaudi, University of Turin, 10 – 13 September 2024

*Dedicated to the memory of Stefano Catani*

**Topics**

*Precise predictions for Standard Model and Beyond the Standard Model phenomenology  
New mathematical techniques for amplitude calculations  
Automated tools for multi-leg amplitudes  
Status reports and implications of current LHC results*

**Local Organising Committee:** *Simon Badger, Raquel Gomez Ambrosio, Lorenzo Magnea, Paolo Torrielli, Sandro Uccirati (UniTo), Leonardo Vernazza (INFN)*

**International Advisory Committee:** *Charalampos Anastasiou (ETH Zürich), Stefan Dittmaier (Freiburg), Daniel de Florian (ICAS-UNSAM Buenos Aires), Thomas Gehrmann (U. Zürich), Massimiliano Grazzini (U. Zürich), Gudrun Heinrich (KIT Karlsruhe), Stephen P. Jones (IPPP Durham), Zoltan Kunszt (ETH Zürich)*

<https://agenda.infn.it/event/35067>

Photo courtesy of Valerio Minato ( @valeriominato)



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Istituto Nazionale di Fisica Nucleare



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Welcome  
to  
Torino!

# TORINO

@valeriominato



IS THE HOME OF ...



ELEGANT CAFÉS ...



... BEAUTIFUL CHURCHES ...



... BEAUTIFUL CHURCHES ...

<https://www.tourismitalia.it/torino-i-10-musei-piu-belli-della-citta/>



... INTERESTING MUSEUMS ...



[www.martinaway.com](http://www.martinaway.com)

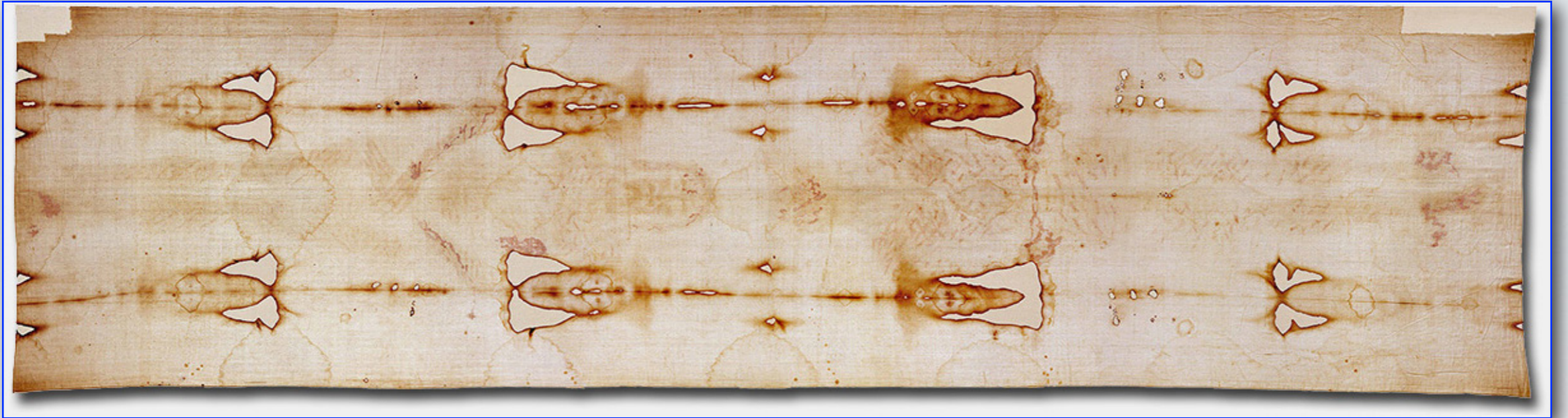
... INTERESTING MUSEUMS ...





... HISTORICAL MONUMENTS ...

<https://www.shroud.com/>



... AND RELICS ...



... GREAT ART ...



... MODERN ARCHITECTURE ...



... BAROQUE ARCHITECTURE ...

<https://milanfoodieinsider.com/viaggi-da-milano/>



... GLORIOUS FOOD ...

<https://www.italyfinestwines.it/migliori-vini-piemontesi/>



... AND WINE

HOWEVER



HOWEVER



WE ARE HERE TO WORK!

HP<sup>2</sup> @ 9

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- 📌 119 participants
- 📌 86 seminars: 21 plenary, 3 parallel sessions
- 📌 >25 seminars by PhD students

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- 📌 >25 seminars by PhD students
- 📌 Aperitivo tonight (18.45)
- 📌 Excursions to Barolo/Egyptian Museum tomorrow (14.00)
- 📌 Conference dinner on Thursday (19.30)

## Scientific Programme

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Methods for amplitudes and integrals

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Precision QCD corrections

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Subtraction, slicing and loop/tree duality

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Electroweak and Higgs Physics, EFT and BSM

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Resummation, Parton Showers and Monte-Carlo

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MANY IDEAS AND CALCULATIONS!

# STEFANO CATANI



26/12/1958 - 16/01/2024

# PRACTICALITIES



THE CENTER OF TORINO





## THE NEIGHBOURHOOD

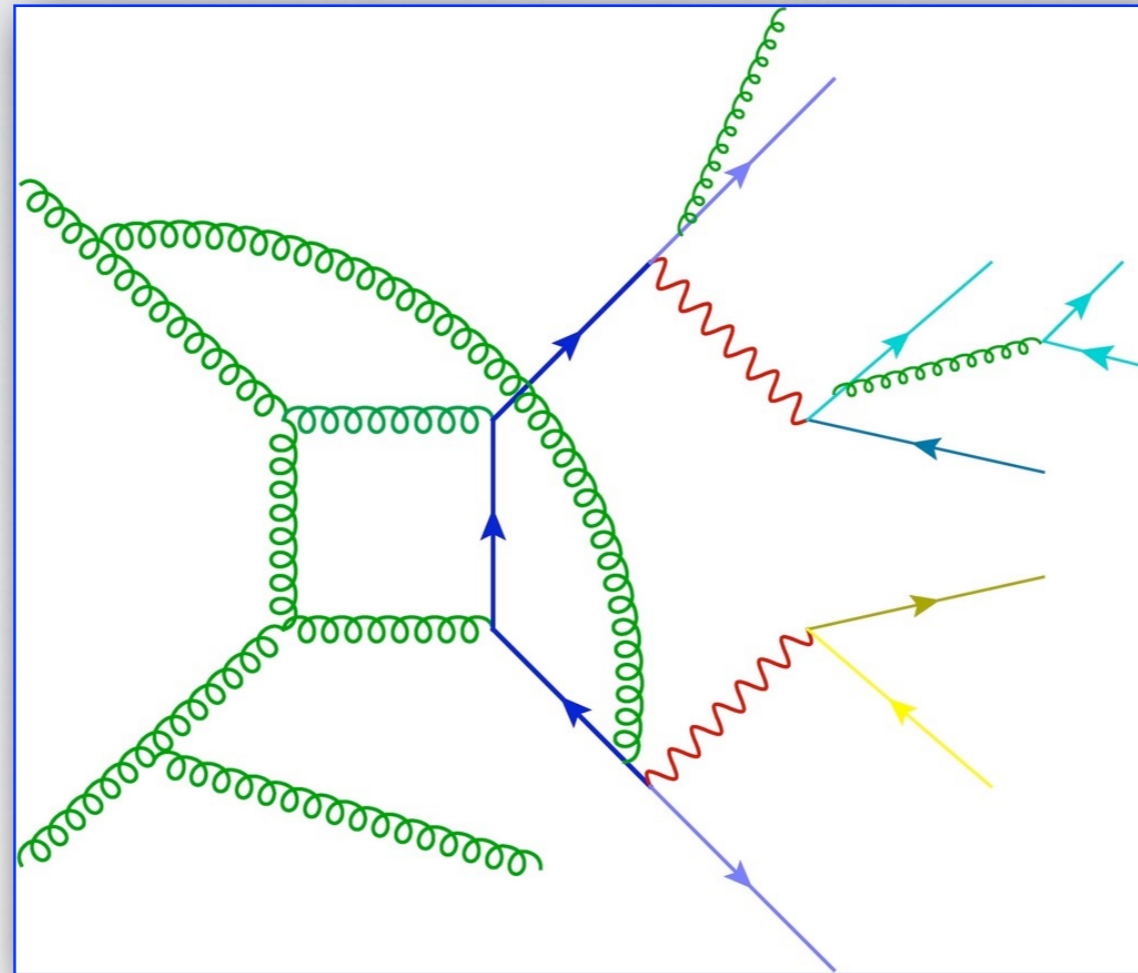
# LUNCHES

- 📌 Lunches are provided by the conference
- 📌 BOWIE: light Italian lunch - < 80 places
- 📌 FARINUM: `giropizza' - < 50 places
- 📌 Pick up your colour-coded ticket every morning
- 📌 First come, first served
- 📌 Vegetarian options in both restaurants, vegan option upon request



THE DINNER - A 25 MINUTE WALK

AND NOW TO THE PHYSICS!



ENJOY THE CONFERENCE!