

*Muon4Future Workshop 2025: Bulletin n.1*

*Apologies for multiple posting. Kindly spread this bulletin among your interested contacts*

Dear All,

The Local Organizing Committee is pleased to inform you that on May 26-30 there will take place the Second “Muon4Future” Workshop.

It will be held in Venice, in the beautiful venue of Palazzo Franchetti-Istituto Veneto in the very heart of the city.

The *Muon4Future* workshop aims to deepen comparisons between the latest results from muon-based experiments and Standard Model predictions. Furthermore, the workshop will continue to evaluate the muon beam technologies required for next-generation experiments and the research and development planned for future proposals. The ultimate goal is to identify the most promising physics experiments and measurements to further test the Standard Model and explore new physics, while addressing innovative ideas, relevant issues, and associated challenges. The Scientific Program is almost completed and many invited speakers from all over the world are now confirming their participation to this challenging event.

The Workshop will be organized in plenary sessions that will cover the following topics:

- Muon dipole moments (magnetic and electric): theory, experiments and future perspectives
- Charged lepton flavor violation: theory, experiment and future perspectives
- New Physics opportunities with low and high energy muon beams
- Neutrino physics with muon beams: theory, experiments and future perspectives
- Muons beams technologies: production, cooling and acceleration at different energy
- Advancements in Muon-based Facilities and Broader Applications
- Muons in other fields: muography, muon spin spectroscopy, muon-catalyzed fusion

The 2025 edition will have some changes in its format. The workshop will last 5 days from Monday to Friday. It will be structured in plenary sessions.

At the end of the week, on Friday 30th, there will be a Follow-Up discussion on theory, experiments and technologies synergies.

Although all talks will be by invitation, in order to encourage the participation of young brilliant students and researchers, there will be given the possibility to present some “flash talk”. These will be selected among the submitted abstracts that will be evaluated by the Local Scientific Committee and International Advisory Committee.

All presented talks, invited and Flash, will be published in the workshop proceedings. The 2025 edition will use the ZENODO Platform for the publication.

Don't miss the opportunity to join the community and meet all the key role actors of this innovative field of physics. Register to the workshop as soon as possible and grab the chance to benefit from the *early bird fee* that will last until April 18<sup>th</sup>.

Please visit the workshop web site to find all the scientific information, the draft timetable and the logistic suggestions on accommodation and traveling.

Use the relevant link to make your registration as soon as this will be opened. Meanwhile take a look at the Indico web site of the Workshop and find all the details.

<https://agenda.infn.it/event/42349/>

Most of all, save the dates and start planning your participation to Muon4Future 2025. Book your room in Venice the soonest possible, to avoid the inconvenience of not finding any availabilities.

Awaiting to meet you in Venice!

Kindest Regards,  
Donatella Lucchesi  
(chairperson on behalf of the Organizing Committee)