

# Mainz Institute for Theoretical Physics, Johannes Gutenberg University

Nov 14 – 18, 2022

Organized by Carlo M. Carloni Calame (INFN Pavia/Diversity Coordinator),  
Massimo Passera (INFN Padua), Luca Trentadue ( INFN Milano Bicocca) and  
Graziano Venanzoni (INFN Pisa)

The banner features a red triangle on the left with the text "MITP TOPICAL WORKSHOP". The central part contains the stylized logo "μONE" with a particle diagram. To the right, it reads "The Evaluation of the Leading Hadronic Contribution to the Muon g-2: Toward the MUonE Experiment" and "14 – 18 November 2022". A globe icon and a URL <https://indico.mitp.uni-mainz.de/event/248> are also present. The MITP logo (Mainz Institute for Theoretical Physics) is in the bottom right. A small copyright notice "© Luca Trentadue" is in the bottom left.

MITP  
TOPICAL  
WORKSHOP

The Evaluation of the Leading Hadronic  
Contribution to the Muon g-2:  
Toward the MUonE Experiment  
14 – 18 November 2022  
<https://indico.mitp.uni-mainz.de/event/248>

μONE

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Theoretical Physics

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The Evaluation of the Leading Hadronic Contribution to the Muon  
g-2: Toward the MUonE Experiment

Intro - Luca Trentadue 14/11/2022  
on behalf of the organizers

First of all

We welcome all of you !

We want to thank **all of you** for accepting our invitation and for being here to contribute to the MUonE project

and more

We want to thank the MITP for giving us this **special** opportunity

# GENERAL AIM OF THIS WORKSHOP\* AND PROGRAM

To bring together physicists with common scientific interests for discussions and collaborations

With the opportunity of concentrating on a specific topic in a comprehensive schedule.

(MITP)

\*BTW a long overdue one, since the spring of 2020 !!

We wish to thank all the MITP Staff for the continuous assistance and care they have had during these problematic years

We have tried to allocate as much time possible for **free interactions and discussions** on the various topics

Scheduled talks in the mornings\* and afternoons\* free from any defined schedule

except for a  
Colloquium by Graziano Venanzoni on Wednesday afternoon  
and a  
Lattice devoted section on Thursday

With a

**Open discussion and Summary** on the entire day of Friday

\*Some changes may still take place

with Carlo, Graziano and Massimo  
we wish you

a very active and pleasant week

## Today's talks

Muon  $g-2$ : Theory Status

Marc Knecht

Muon  $g-2$ : Experimental Status

Anna Driutti

The MUonE experiment:  
status and news from test runs

Umberto Marconi

MUonE analysis strategy

Giovanni Abbiendi

MUonE simultaneous fit of  
Dalphi<sub>had</sub> and systematic effects

Riccardo Nunzio Pilato

