

# WG4 session intro

WG4 conveners

11/12/2024

# WG4 Conveners Working Meetings

- Several conveners meet-ups with the goal of finding a better format to work together:
  - We had get-know-each-other topical meetings in the first half of the year as the first step in working together.
  - We see the subsequent topical meetings as Not-another-meeting to introduce physics motivations and present results.
  - But - Personal / group interests in Simulation & SW Development
  - Or - Simulation approach to tackle certain problems/application
    - Discussing strategy, most optimal tools, limitations of these tools ...
    - Discussing what new developments are required to reach the goal to “realistically” simulate certain problems/application
  - Given the increasing use of AI for reconstruction tasks, we are considering forming a topical group focused on machine learning applications in gaseous detectors.
- not-so-long-term task:
  - Preparation of simulation school
- long-term aim:
  - We identified common research tasks, and now the question of how to organize work in formed sub-groups to tackle problems
  - To start working through an identified group that will take on common tasks (documentation/teaching)

# Today's WG4 agenda

< Mon 09/12 Tue 10/12 **Wed 11/12** Thu 12/12 Fri 13/12 All days >

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Session legend

Working Group 4: Detector physics, simulations, and software tools

Working Group 5: Electronics for gaseous detectors

09:00	<b>News</b>	
	40/S2-D01 - Salle Dirac, CERN	09:00 - 09:10
	<b>optimization approach for optimal eco-friendly gases for RPCs</b>	Dario Stocco et al.
	40/S2-D01 - Salle Dirac, CERN	09:10 - 09:30
	<b>How the different cathodic metals perturb the CF<sub>3</sub><sup>+</sup> potential energy curve</b>	Jelena Jovanovic et al.
	40/S2-D01 - Salle Dirac, CERN	09:30 - 09:50
	<b>Advances in the Operational Principles of MICROMEGAS Gas Detectors at Low Pressure.</b>	Federico Pilo et al. <a href="#">🔗</a>
10:00	40/S2-D01 - Salle Dirac, CERN	09:50 - 10:10
	<b>simulation studies of PID for the CEPC TPC</b>	Dr Guang Zhao
	40/S2-D01 - Salle Dirac, CERN	10:10 - 10:30
	<b>short break - coffee</b>	
	40/S2-D01 - Salle Dirac, CERN	10:30 - 11:00
11:00	<b>A standardization effort for low-temperature gas reactions</b>	Michele Renda
	40/S2-D01 - Salle Dirac, CERN	11:00 - 11:20
	<b>Time Resolution in Resistive Plate Chambers from Statistical Considerations</b>	Marcello Abbrescia et al.
	40/S2-D01 - Salle Dirac, CERN	11:20 - 11:40
	<b>DRD1 School Student Lecture: Long Simulation Exercise (RPC and resistive Micromegas)</b>	Matteo Brunoldi et al.
	40/S2-D01 - Salle Dirac, CERN	11:40 - 11:55