



# **Muon Collider General Meeting March 31 - April 2**

**Only from remote -**

## **News & goals**

This general meeting is virtual due to COVID-19 lockdown  
It is a worrisome complicated and sad time that requires us to take care of ourselves and close ones to keep us safe as a priority

The meeting was not canceled to allow further progress and to set the next steps

*FINDINGS and RECOMMENDATIONS:*

**Set-up an international collaboration to promote muon colliders**  
and **organize the effort on the development of both accelerators and detectors**  
and to define the road-map towards a CDR by the next Strategy update

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**Carry out the R&D program toward the muon collider**

## **Muon Collider Working Group**

*Jean Pierre Delahaye, CERN, Marcella Diemoz, INFN, Italy,  
Ken Long, Imperial College, UK, Bruno Mansoulie, IRFU, France,  
Nadia Pastrone, INFN, Italy (chair), Lenny Rivkin, EPFL and PSI, Switzerland,  
Daniel Schulte, CERN, Alexander Skrinsky, BINP, Russia, Andrea Wulzer, EPFL and CERN*

*appointed by CERN Laboratory Directors Group in September 2017*  
**to prepare the Input Document to the European Strategy Update**

“Muon Colliders,” [arXiv:1901.06150](https://arxiv.org/abs/1901.06150)

# International meetings/workshops

Past experiences and new ideas discussed at the joint ARIES Workshop

**Padova - July 2-3, 2018**

<https://indico.cern.ch/event/719240>

Preparatory meeting to review progress for the ESPPU Symposium

**CERN - April 10-11, 2019**

<https://indico.cern.ch/event/801616>

Workshop to identify feasibility issues and possible synergies

following the Physics Briefing Book

**CERN - October 9-11, 2019**

<https://indico.cern.ch/event/845054/>

ECFA Novel Accelerator Technologies

**CERN - 14 November, 2020**

<https://indico.cern.ch/event/847002/>

# A general meeting

Waiting for the European Strategy Update recommendations:

**This working meeting aims to discuss and identify the critical steps for a design study towards an machine operating at 3 TeV center-of-mass energy**

The path to a higher center-of-mass energy option for a future energy frontier machine will also be discussed

The detailed discussions ( to be addressed in following dedicated meetings) on physics benchmarks, required detector simulation and design efforts, machine and the technology development necessary to implement a facility

should be focused to draft

a roadmap for the R&D and design efforts with clearly identified priorities fostering an international collaboration working on muon collider development

**Wishing to all of us  
fruitful discussions  
to define  
reasonable plans  
towards next steps**

**Thanks to all the speakers and contributions**