

International Muon Collider Design Study

Accelerator Design meeting

Monday 10/05/2021, 16:00 – 18:00

(<https://indico.cern.ch/event/1037467/>)

Chair: Daniel Schulte

Speakers: Daniel Schulte, André-Pierre Olivier and Elias Métral

Participants (zoom): André-Pierre Olivier, Akira Yamamoto, Alan Bross, Alex Bogacz, Alexej Grudiev, Antoine Chance, Anton Lechner, Bernd Stechauner, Chris Densham, Cary Yoshikawa, Christian Carli, Chris Rogers, Craig Brown, Daniel Schulte, Daniele Calzolari, David Kelliher, Elena Fol, Elias Métral, Eric Baussan, Fboattin, Francesca Galluccio, Giuseppe Lerner, Herbert De Gerssem, Ivan Karpov, J. Scott Berg, Jean-Pierre Delahaye, Jose Antonio Ferreira Somoza, Kyriacos Skoufaris, Lorenzo Sestini, Manfred Wendt, Marco Calviani, Markus Widorski, Massimo Casarsa, Nazar Bartosik, Mark Palmer, Nadia Pastrone, Oscar Blanco, Peter Sievers, Philippe Lebrun, Rob Van Weelderen, Robert Ryne, Roberto Losito, Sergey Arsenyev, Shinji Machida, Tor Raubenheimer, Tord Ekelof, Ursula Van Rienen, Vladimir Shiltsev.

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MEETING DECISIONS

- Logo and graphical identity: almost decided (and therefore should be ready for our 1st Community Meeting next week)! Just remains to be seen and decided by Daniel if “International” should be added and can be added.

MEETING ACTIONS

- 1: Everybody (and in particular a convener for a WG)** Answer to the questions raised by email to discuss them and conclude at the second conveners’ meeting this Wednesday.
- 2: Jean-Pierre Delahaye and Mark Palmer** Try and send to all of us the list of parameters to be used for the different stages of the muon collider chain (as the 1st Community Meeting will take place next week).

GENERAL INFORMATION AND NEWS (DANIEL SCHULTE)

- Daniel mentioned that we will need soon to see how to share the work and actually do the work => A stakeholder meeting will be organized in the first part of June (most probably in the second week).

1 PROPOSED LOGO AND GRAPHICAL IDENTITY (ANDRÉ-PIERRE OLIVIER)

- André-Pierre Olivier showed 3 sets of slides (see on the indico site) to
 - o Present his past work for other logos.
 - o Explain in detail the process which led to the proposed logo.
 - o Show how a powerpoint template could look like with several proposals for the first and last slides.
- Before the meeting, several people liked the logo and graphical identity.
- During the meeting, the main discussion / proposal was to maybe try and add the word international IF possible. It was discussed that the notion of international is by default at CERN and that in the proposed logo there are 2 references to collaboration (which again is by default international at CERN): the term collaboration appears explicitly AND the logo itself describes both collisions of particles and collaboration between people (it was a fundamental aspect, which needed to be taken into account in the creation of the logo). It will be up to Daniel to decide if “International” should be added and can be added, following some new proposals sent by André-Pierre Olivier.

2 FOLLOW-UP DISCUSSION ABOUT THE 1ST COMMUNITY MEETING ON 20-21/05/21 (CHRIS ROGERS AND ELIAS METRAL)

- Tomorrow
 - o Muon Beam panel meeting at 14:00 where Chris will report about the status of the 1st Community Meeting (I will not be available to join unfortunately).
 - o RF meeting organized by Alexej at 16:00.
- Wednesday
 - o BD meeting at 14:00.
 - o 2nd conveners' meeting at 16:30 where the answers to the several questions which have been sent by email (about the timetable etc.) should be discussed ([See Action 1](#)).
- Status of the 1st Community Meeting
 - o 99 people registered as of today => See excel sheet on the indico site.
 - o All the WGs are covered by several people except for the Proton Complex where only Simone is a convener (another person should have been contacted but no news yet).
 - o Now that our logo and graphical identity has been (almost) accepted, we will put also the ppt template to be used on the website by Monday 17/05/21 at 18:00.
 - o Invitations for the plenary talks have been sent already and we are still waiting for some answers.
 - o Joined sessions to be finalized on Wednesday during the 2nd conveners' meeting
 - ⇒ BD requests 3 hours in joined session
 - 1) 1 hour with 2 other WGs at the same time: HE-complex + RF
 - 2) 1 hour with Magnets
 - 3) 1 hour with Muon production and cooling
 - ⇒ RF
 - Muon cooling
 - Accelerator
 - Proton driver
 - Beam Dynamics
 - ⇒ MDI
 - They will ask a shared slot with HE-complex, Magnet and Radiation protection possibly late on May 20.
 - ⇒ Others?
 - o Can we use the list of parameters prepared by Jean-Pierre et al.? Is it the same list as the one which should have been prepared by Mark? ([See Action 2](#)).
 - o Reminder about Action 1 above: A proposal (and only a proposal) was made very recently to the conveners of the 8 WGs to devote the 1st hour after the plenary session (and before starting with the parallel sessions) such that each WG can present (still in plenary session with everybody) in 7 min max (5 min + 2 min questions) the main info he would like to share with the others and the main questions he would like to raise for the

other WGs. Furthermore, other questions were raised => Continue to think about that and we will conclude on Wednesday.

- A 9th WG has been added on “Synergy” with Kenneth Long as convener => See <https://indico.cern.ch/event/1030726/>.

3 AOB (EVERYBODY)

- There will be no meeting next Monday as we will be all busy preparing the 1st Community Meeting of the end of the week. The week after is IPAC and we propose to hold the next meeting the Monday after (31/05/2021) where all the WGs will present an updated version of their preliminary summaries of the 1st Community Meeting (see evolving agenda here: <https://indico.cern.ch/event/1038303/>).

Reported by E. Métral and D. Schulte