

Muon Cooling Demonstrator Workshop Second Conveners' Meeting

11 pm CEST Thursday 18th April (by Zoom)

Chris Rogers
Sergo Jindiniari
Ryuichiro Kitano
Roberto Losito
Emilio Nanni
Mamad Eshraqi

We noted that the dates are now set for 23/24th September. Sergo told us that he has spoken to the Femilab conference office and kicked things off there. He hopes to get an indico up in the next week or two. Expects to get some financial support from Fermilab. Estimate conference registration fee of about \$100-125.

We discussed the agenda. Chris proposed a block agenda, with timings likely to stretch as we get a firmer idea of the talks.

23rd September		
10:00:00		Introduction, demonstrator design status
12:00:00		Lunch
13:00:00		Magnet Technology
15:00:00		Break
15:30:00		RF Technology
19:00:00		Dinner?
24th September		
09:00:00		Synergies and alternative ideas
11:00:00		Break
11:30:00		Host Sites (1)
12:30:00		Lunch
13:30:00		Host Sites (2)
14:30:00		Wrap-up & Tours

We discussed the agenda, section by section. I list below the proposed talks and responsible person.

Introduction and Design Status

Lab Welcome (Sergo)
Organisation/orientation (Sergo)
R&D programme, timelines, international landscape (Chris/Roberto)
Rectilinear cooling (Diktys)
Final cooling (Chris)
Status of software (Chris)
Absorber (Chris)
Instrumentation (Chris)
Engineering (Chris)

Magnet Technology

Japanese magnet R&D (Akira)
US High Field Magnet programme (Sergo)
European High Field Magnet programme (Roberto)
RFMF Test facility (Roberto)

RF Technology

SLAC R&D
Fermilab R&D
LBNL R&D
Power supplies (Europe)
Cavity design (Europe)

Synergies and Alternative Ideas

JPARC/g-2 cooling scheme
PSI
mu2e
nuSTORM
COMET

Host Sites

We noted that this name was perhaps a bit too loaded, and proposed maybe “Beam tests” or some such might be a better session name. We made a list of labs who may be interested to present in this session:

US

Oak Ridge (Sarah)
Fermilab (Diktys)
Los Alamos (Emilio)
Brookhaven (Diktys)
Berkeley (?)

Asia

JPARC (Akira/Ryuichiro)
[We did not discuss China, but I add it here – they should be invited I think] (Chris)

Europe

CERN, to include studies of the target and transport line (Roberto)
PSI (Chris)
Rutherford Lab (Chris)
ESS (Mamad)

Tour, if time allows