

Session Program

11-14 Oct 2022



IMCC Annual Meeting 2022

Plenary Session

CERN

Wednesday 12 October

08:30

Plenary Session: Low Energy

Session | **Location:** CERN, 6/R-012 - conference room | **Convener:** Dr Marco Calviani

08:30–08:50

A new scheme of negative muon beam generation with MuCF

Speaker

Yoshiharu Mori

09:00–09:20

Graphite & liquid target issues

Speaker

Rui Franqueira Ximenes

09:30–09:50

Fluidised Tungsten target issues

Speaker

Chris Densham

10:00–10:20

Possible applications of Liquid Heavy Metals in particle accelerators

Speaker

Carlo Carrelli

10:30

10:50

Plenary Session: Low Energy 2

Session | **Location:** CERN, 6/R-012 - conference room | **Convener:** Natalia Milas

10:50–11:10

Target pion yield

Speaker

John James Back

11:10–11:30

Cooling: Rectilinear

Speaker

Chris Rogers

11:30–11:50

Cooling: Final

Speaker

Bernd Michael Stechauner

11:50–12:10

Cooling studies in the US

Speaker

Diktys Stratakis

12:10–12:30

Discussion

12:30

14:00

Plenary Session: High Energy (2PM - 4 PM) / Proton Driver (4 PM - 6:30 PM)

Session | **Location:** CERN, 6/R-012 - conference room | **Conveners:** Christian Carli, Dr Antoine Chance

14:00–14:15

Parametric study for a rapid cycling synchrotron

	Speaker Dr Antoine Chance
	14:20–14:35 RF parameter choices and longitudinal stability Speaker Mr Fabian Batsch
	14:40–14:55 Transverse impedance and stability considerations for the first RCS Speaker Dr David Amorim
	15:00–15:15 Update on studies on vertical FFAs Speaker Max Topp-Mugglestone
	15:15–15:35 3 TeV collider transverse impedance and stability Speaker Dr David Amorim
16:00	
16:20	Plenary Session: Proton Driver Session Location: CERN, 6/R-012 - conference room
	16:30–16:50 Proton driver parameters: US siting Speaker Dr Jeffrey Eldred
	17:00–17:20 Proton bunch compression Speaker David Neuffer
	17:30–17:50 Proton Driver Considerations: European Siting Speaker Ciprian Plostinar
	18:00–18:20 Crystal-based pair production for a positron driven muon collider positron source Author list Speaker Marco Romagnoni
18:30	

Thursday 13 October

08:30

Plenary Session: Proton driver, target and cooling

Session | **Location:** CERN, 40/S2-D01 - Salle Dirac | **Convener:** Chris Rogers

08:50–09:10 **Radiation load studies in the target area**

Speaker

Daniele Calzolari

09:15–09:35 **Cooling windows/absorber impact of radiation load**

Speaker

Dr Jose Antonio Ferreira Somoza

09:40–10:00

Solenoid magnet design - to include target, rectilinear, final cooling magnets

Speakers

Luca Bottura, Dr Marco Statera

10:05–10:25 **RF for cooling: Beam loading, Harmonic RF**

Speaker

Alexej Grudiev

10:30

10:50

Plenary Session: Demonstrator and Test Facilities

Session | **Location:** CERN, 40/S2-D01 - Salle Dirac | **Convener:** Roberto Losito

10:50–11:10 **Layout of the facility**

Speaker

Chris Rogers

11:15–11:35 **Possible implementation at CERN**

Speaker

Dr Marco Calviani

11:40–12:00 **Synergies with nuSTORM**

Speaker

Kenneth Richard Long

12:05–12:25 **Demands for RF testing in strong magnetic fields**

Speaker

Claude Marchand

12:30

14:00

Plenary Session: Accelerator and Colliders

Session | **Location:** CERN, 40/S2-D01 - Salle Dirac | **Conveners:** Christian Carli, Dr Antoine Chance

14:00–14:20 **Magnet cycling considerations**

Speaker

Fulvio Boattini

16:00

14:20–14:40 RF cycling considerations**Speaker**

Mr Fabian Batsch

16:20

14:40–15:00 Collider ring lattice proposal**Speaker**

Kyriacos Skoufaris

15:00–15:20 Neutrino radiation for a realistic collider**Speaker**

Christian Carli

Plenary Session: Siting, dose, neutrinos**Session** | **Location:** CERN, 40/S2-D01 - Salle Dirac**16:20–16:40 Update on RP aspects****Speaker**

Claudia Ahdida

16:40–17:00 FLUKA dose calculations for neutrinos**Speaker**

Dr Giuseppe Lerner

17:00–17:20 GeoProfiler: Tool for siting and locating neutrino flux**Speakers**

Gil Lacerda, John Andrew Osborne, Youri Robert

17:20–17:40 Siting a MC at FNAL**Speaker**

David Neuffer

17:40–18:10 Precision neutrino source**Speaker**

Patrick Huber

18:10–18:40 Charged Lepton Flavor Experiments at FNAL and the Muon Collider**Speaker**

Robert Bernstein

19:00