

Session Program

Oct 11 - 14, 2022



IMCC Annual Meeting 2022

Parallel Session - Technologies

CERN

Wed, October 12

8:30 AM

Parallel Session - Technologies: Magnets

Session | **Location:** CERN, 180/1-N51 | **Conveners:** Luca Bottura, Dr Marco Statera

08:30 - 08:45

Introduction on magnet specifications, demands, challenges and technologies

Speakers

Lionel Quettier, Luca Bottura

08:45 - 09:00

HTS options for the target solenoid and decay channel

Speakers

Alfredo Portone, Luca Bottura

09:00 - 09:20

From the 32 T to the all-SC 40 T

Speaker

Iain Dixon

09:20 - 09:30

Solenoids for the muon cooling - introduction and challenges

Speaker

Dr Marco Statera

09:35 - 09:45

Spotlight - Development targets and choices for superEMFL at LNCMI

Speakers

Mr Jung-Bin Song, Xavier CHAUD

09:50 - 10:00

Spotlight - Development targets and choices at CEA

Speaker

Lionel Quettier

10:05 - 10:15

Spotlight - Development targets and choices at PSI

Speaker

Dr Jaap Kosse

10:20 - 10:40

Spotlight - Development targets and choices at CERN

Speakers

Alexey Dudarev, Bernardo Bordini

10:40 AM

8:30 AM

Parallel Session - Technologies: RF

Session | **Location:** CERN, 30/7-010 | **Convener:** Alexej Grudiev

08:30 - 08:50

SRF system for MC RCSs

Speaker

Heiko Damerau

08:55 - 09:15

Performance of ILC/TESLA-type cavities for MC RCS application (remote)

10:30 AM

Speaker
Prof. Akira Yamamoto

09:20 - 09:40 **Piezo-tuner and FPC for ILC/TESLA-type cavities (remote)**

Speaker
Yasuchika Yamamoto

09:45 - 10:05 **Fast reactive tuners**

Speaker
Alick Macpherson

10:50 AM

Parallel Session - Technologies: Magnet Programs

Session | **Location:** CERN, 180/1-N51 | **Convener:** Luca Bottura

10:50 - 11:10 **HFM R&D - Plans and Achievements, Relevance to the Muon Collider**

Speaker
Andrzej Siemko

11:10 - 11:30

Japanese magnet R&D - Plans and Achievements, Relevance to the Muon Collider

Speaker
Toru Ogitsu

11:30 - 11:50

Chinese magnet R&D - Plans and Achievements, Relevance to the Muon Collider

Speaker
Qingjin Xu

11:50 - 12:10 **US-MDP - Plans and Achievements, Relevance to the Muon Collider**

Speaker
Soren Prestemon

12:10 - 12:30 **Italian PNRR - Goals and Outline, Relevance to the Muon Collider**

Speaker
Lucio Rossi

12:30 PM

10:50 AM

Parallel Session - Technologies: RF

Session | **Location:** CERN, 30/7-010 | **Convener:** Alexej Grudiev

10:50 - 11:10 **High gradient testing in magnetic field at CEA**

Speaker
Claude Marchand

11:15 - 11:35 **High gradient testing in magnetic field in UK (remote)**

Speaker
Graeme Campbell Burt

11:40 - 12:00 **The MICE "Focus Coil Module" (remote)**

Speaker
Dr Josef Boehm

12:05 - 12:25 **High gradient RF testing infrastructure and MgB2 solenoid at CERN**

12:30 PM

Speaker
Nuria Catalan Lasheras

2:00 PM

Parallel Session - Technologies: Radiation effects in magnets (2PM-4PM) / Accelerator Magnets, Cryogenics and Workplan (4PM-6:30PM)

Session | **Location:** CERN, 180/1-N51 | **Conveners:** Anton Lechner, Luca Bottura

14:00 - 14:20 **R&D towards radiation-hard HTS magnets**

Speaker
iio masami

14:25 - 14:45 **Effect of radiation on stabilizer - impact on stability and protection**

Speaker
Makoto Yoshida

14:50 - 15:10 **Radiation and energy deposition at the muon collider**

Speakers
Anton Lechner, Daniele Calzolari

15:15 - 15:35 **Radiation effects in superconductors summary**

Speaker
Michael Eisterer

15:40 - 16:00 **Radiation effects in HTS compact fusion devices**

Speaker
Zachary Hartwig

4:00 PM

4:20 PM

Parallel Session - Technologies: Accelerator Magnets, Cryogenics and Workplan

Session | **Location:** CERN, 180/1-N51 | **Conveners:** Samuele Mariotto, Barbara Caiffi

16:20 - 16:40 **Resistive magnet design studies**

Speakers
Marco Breschi, Prof. Pierluigi Ribani, Rebecca Miceli

16:40 - 17:00 **Powering solutions and technology options**

Speaker
Fulvio Boattini

17:00 - 17:20 **Cryogenic options for the muon collider**

Speakers
Dr Patricia Tavares Coutinho Borges De Sousa, Rob Van Weelderden

17:20 - 17:40 **Design limits for accelerator dipoles and quadrupoles**

Speakers
Dr Etienne Rochepault, Paolo Ferracin, Paolo Ferracin

17:40 - 17:45 **Workplan for magnet WP8 - Task 1**

Speakers
Lionel Quettier, Luca Bottura

17:45 - 17:55 **Workplan for magnet WP8 - Task 2**

Speaker

Dr Marco Statera

17:55 - 18:05 **Workplan for magnet WP8 - Task 3**

Speaker

Fulvio Boattini

18:05 - 18:20 **Workplan for magnet WP8 - Task 4**

Speakers

Barbara Caiffi, Samuele Mariotto

6:35 PM