

# **L'INFN e la Strategia Europea per la Fisica delle Particelle**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome & Introduction

*Monday, 6 May 2024 10:30 (15 minutes)*

**Presenter:** ZOCOLI, Antonio (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 2

Type: **not specified**

## **The Physics context: theory and phenomenology**

*Monday, 6 May 2024 10:45 (30 minutes)*

includes 5 minutes for discussion

**Primary author:** MELE, Barbara (Istituto Nazionale di Fisica Nucleare)

**Presenter:** MELE, Barbara (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Interdisciplinary

Contribution ID: **3**

Type: **not specified**

**TALK**

Contribution ID: 4

Type: **not specified**

## FCC detectors

*Tuesday, 7 May 2024 09:45 (30 minutes)*

**Co-authors:** VIVARELLI, Iacopo (Istituto Nazionale di Fisica Nucleare); GIACOMELLI, Paolo (INFN Bologna)

**Presenter:** VIVARELLI, Iacopo (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** FCC

Contribution ID: 5

Type: **not specified**

## The IDEA detector

*Tuesday, 7 May 2024 10:15 (30 minutes)*

**Co-authors:** GAUDIO, Gabriella (Istituto Nazionale di Fisica Nucleare); GIACOMELLI, Paolo (INFN Bologna)

**Presenter:** GAUDIO, Gabriella (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** FCC

Contribution ID: 6

Type: **not specified**

## **Detector concepts/requirements for Muon Collider**

*Tuesday, 7 May 2024 11:15 (30 minutes)*

**Presenter:** CASARSA, Massimo (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Muon Collider

Contribution ID: 7

Type: **not specified**

## Precision physics

*Tuesday, 7 May 2024 14:30 (30 minutes)*

**Presenter:** BUTTAZZO, Dario (INFN Pisa)

**Session Classification:** Interdisciplinary

Contribution ID: 8

Type: **not specified**

## Discovery physics

*Tuesday, 7 May 2024 15:00 (30 minutes)*

**Presenter:** FRANCESCHINI, Roberto (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Interdisciplinary

Contribution ID: 9

Type: **not specified**

## Discussion

*Tuesday, 7 May 2024 15:30 (30 minutes)*

**Session Classification:** Interdisciplinary

Contribution ID: **10**

Type: **not specified**

## **Hints for discussion: Next Generation Triggers for HL LHC**

**Presenter:** BOTTA, Cristina (CERN)

**Session Classification:** Interdisciplinary

Contribution ID: 11

Type: **not specified**

## **Hints for discussion: How Artificial Intelligence can play a role in detector design optimization**

*Tuesday, 7 May 2024 11:50 (10 minutes)*

**Presenter:** DORIGO, Tommaso (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Interdisciplinary

Contribution ID: 12

Type: **not specified**

## **Discussion: INFN activities/needs and step forwards**

*Tuesday, 7 May 2024 12:00 (1 hour)*

**Session Classification:** Interdisciplinary

Contribution ID: 13

Type: **not specified**

## **Nb3Sn Magnet status & plan for FCC-hh**

*Monday, 6 May 2024 14:30 (15 minutes)*

**Presenters:** SORBI, Massimo (Istituto Nazionale di Fisica Nucleare); FARINON, Stefania (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** FCC

Contribution ID: 14

Type: **not specified**

## **HTS Magnet status & plan for FCC-hh**

*Monday, 6 May 2024 14:45 (15 minutes)*

**Presenter:** MARIOTTO, Samuele (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** FCC

Contribution ID: 15

Type: **not specified**

## **Status of bulk Nb SRF and possible INFN contribution for FCC**

*Monday, 6 May 2024 15:00 (15 minutes)*

**Presenter:** PAPARELLA, Rocco (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** FCC

Contribution ID: 16

Type: **not specified**

## **Development of thin film SRF relevant for FCC**

*Monday, 6 May 2024 15:15 (15 minutes)*

**Presenter:** PIRA, Cristian (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** FCC

Contribution ID: 17

Type: **not specified**

## Discussion

*Monday, 6 May 2024 15:30 (30 minutes)*

**Session Classification:** FCC

Contribution ID: **18**

Type: **not specified**

## **FCC Mid Term Plan**

*Monday, 6 May 2024 11:15 (45 minutes)*

**Presenter:** BENEDIKT, Michael (CERN)

**Session Classification:** FCC

Contribution ID: 19

Type: **not specified**

## **INFN Accelerator activities for the FCC FS**

*Monday, 6 May 2024 12:00 (10 minutes)*

**Presenter:** BOSCOLO, Manuela (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** FCC

Contribution ID: 20

Type: **not specified**

## **Damping ring and transfer lines for the FCC-ee pre-injector complex**

*Monday, 6 May 2024 12:10 (20 minutes)*

**Presenter:** SPAMPINATI, Simone (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** FCC

Contribution ID: 21

Type: **not specified**

## **FCC-ee MDI status and next steps**

*Monday, 6 May 2024 12:30 (30 minutes)*

**Co-authors:** CIARMA, Andrea (Istituto Nazionale di Fisica Nucleare); FRANCESINI, Francesco (Istituto Nazionale di Fisica Nucleare)

**Presenters:** CIARMA, Andrea (Istituto Nazionale di Fisica Nucleare); FRANCESINI, Francesco (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** FCC

Contribution ID: 22

Type: **not specified**

## Muon Collider

*Monday, 6 May 2024 16:30 (30 minutes)*

**Presenter:** SCHULTE, Daniel

**Session Classification:** Muon Collider

Contribution ID: 23

Type: **not specified**

## **RF progress and test plan for the Muon Collider cooling**

*Monday, 6 May 2024 17:00 (20 minutes)*

**Presenter:** GIOVE, Dario Augusto (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Muon Collider

Contribution ID: 24

Type: **not specified**

## **HTS magnets challenges for Muon Collider cooling cells**

*Monday, 6 May 2024 17:20 (15 minutes)*

**Presenter:** STATERA, Marco (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Muon Collider

Contribution ID: 25

Type: **not specified**

## **Muon Collider MDI - challenges and plan**

*Monday, 6 May 2024 17:35 (15 minutes)*

**Presenter:** CALZOLARI, Daniele (CERN)

**Session Classification:** Muon Collider

Contribution ID: 26

Type: **not specified**

## Discussion

*Monday, 6 May 2024 17:50 (40 minutes)*

**Session Classification:** Muon Collider

Contribution ID: 27

Type: **not specified**

## **Plans for Detector Research and Development International Collaborations**

*Tuesday, 7 May 2024 09:00 (45 minutes)*

**Presenter:** GEMME, Claudia (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Interdisciplinary

Contribution ID: **28**

Type: **not specified**

## **Discussion**

**Session Classification:** Interdisciplinary

Contribution ID: 29

Type: **not specified**

## Registration & Welcome Coffee

*Monday, 6 May 2024 09:30 (1 hour)*

Contribution ID: **30**

Type: **not specified**

## **Farewell Coffee**

*Tuesday, 7 May 2024 16:45 (1 hour)*