

**WAMHTS-5**

# **Report of Contributions**

Contribution ID: **1**

Type: **not specified**

# Welcome

*Thursday 11 April 2019 13:30 (10 minutes)*

**Presenter:** ROSSI, Lucio (CERN)

Contribution ID: 2

Type: **not specified**

## **REBCO tapes and conductor: what we understand dand what we do not (20' + 5')**

*Thursday 11 April 2019 13:40 (25 minutes)***Presenter:** COOLEY, Lance (Fermilab)**Session Classification:** Session 1

Contribution ID: 3

Type: **not specified**

## **Source and phenomenology of current redistribution (25' + 5')**

**Session Classification:** Session 1

Contribution ID: 4

Type: **not specified**

## **Ac losses and field quality of ramp-up and down magnets wound with RE-123 coated conductors for accelerator applications (20' + 5')**

*Thursday 11 April 2019 14:45 (25 minutes)***Presenter:** Prof. AMEMIYA, Naoyuki (Kyoto University)**Session Classification:** Session 1

Contribution ID: 5

Type: **not specified**

## Calculating screening current effects in REBCO devices and coils (15' + 5')

*Thursday 11 April 2019 15:10 (20 minutes)***Presenter:** BORTOT, Lorenzo (CERN)**Session Classification:** Session 1

Contribution ID: 6

Type: **not specified**

## Contact resistance and current sharing of superconducting cables (15' + 5')

*Thursday 11 April 2019 15:50 (20 minutes)***Presenter:** PHIFER, Virginia (Florida State Univ)**Session Classification:** Session 1

Contribution ID: 7

Type: **not specified**

## **Conductor issue with Corc and other cable in CCT configuration (25' + 5')**

**Presenter:** WANG, Xiaorong (Lawrence Berkeley National Laboratory)

**Session Classification:** Session 2

Contribution ID: 8

Type: **not specified**

## **Redistribution and field decay: modeling and analysis of Eucard race tack (20' + 5')**

**Presenter:** DURANTE, Maria (CEA)

**Session Classification:** Session 2

Contribution ID: 9

Type: **not specified**

## **HTS Modelling advance (20' + 5')**

*Thursday 11 April 2019 17:00 (25 minutes)*

**Presenter:** BRESCHI, Marco (Universita e INFN, Bologna (IT))

**Session Classification:** Session 2

Contribution ID: 10

Type: **not specified**

## **Cable behaviour and specific issues with HTS tapes (20' + 5')**

*Thursday 11 April 2019 17:25 (25 minutes)***Presenter:** BRUZZONE, Pierluigi (EPFL-SPC)**Session Classification:** Session 2

Contribution ID: 11

Type: **not specified**

## **Status of 32 T and 40 T at NHMFL and target for conductor for frontier magnets (20' + 5')**

*Friday 12 April 2019 08:30 (25 minutes)***Presenter:** COOLEY, Lance (Fermilab)**Session Classification:** Session 2

Contribution ID: 12

Type: **not specified**

# **Study on quench protection conditions of conduction-cooled coated-conductor magnets (20' + 5')**

*Friday 12 April 2019 08:55 (25 minutes)***Presenter:** AMEMIYA, Naoyuki (Kyoto University)**Session Classification:** Session 2

Contribution ID: 13

Type: **not specified**

## **BNL experience with NI coils (25' + 5')**

*Friday 12 April 2019 09:20 (30 minutes)***Presenter:** GUPTA, Ramesh (BNL)**Session Classification:** Session 2

Contribution ID: 14

Type: **not specified**

## **Summary of the experience with NI solenoids: does NI really work? (30' + 5')**

*Friday 12 April 2019 10:40 (35 minutes)***Presenter:** HAHN, Seungyong (Seoul National University)**Session Classification:** Session 2

Contribution ID: 15

Type: **not specified**

## **Feather-M2.3-4 and electro-magnetic and thermal analysis of large partially insulated coils (25' + 5')**

*Friday 12 April 2019 11:15 (30 minutes)***Presenter:** VAN NUGTEREN, Jeroen (CERN)**Session Classification:** Session 2

Contribution ID: 16

Type: **not specified**

## **Non-voltage quench detection and localization development for HTS (20' + 5')**

*Friday 12 April 2019 11:45 (25 minutes)***Presenter:** MARCHEVSKY, Maxim (LBNL)**Session Classification:** Session 2

Contribution ID: 17

Type: **not specified**

## **New tape architecture for increasing quench velocity (20' + 5')**

**Presenter:** LACROIX, Christian (CERN)**Session Classification:** Session 2

Contribution ID: 18

Type: **not specified**

## Review of Medical application for HTS (20' + 5')

*Friday 12 April 2019 14:00 (25 minutes)***Presenter:** GODEKE, Arno (Lawrence Berkeley National Laboratory)**Session Classification:** Session 5

Contribution ID: 19

Type: **not specified**

## Review of Power application for HTS (20'+5')

*Friday 12 April 2019 14:25 (25 minutes)***Presenter:** NOE, Mathias (Karlsruhe Institute of Technology)**Session Classification:** Session 5

Contribution ID: 20

Type: **not specified**

## Review of Science application for HTS (20'+5')

*Friday 12 April 2019 14:50 (25 minutes)***Presenter:** GOURLAY, Stephen (LBNL)**Session Classification:** Session 5

Contribution ID: 21

Type: **not specified**

## **MIT HTS conductor program for the fusion and overview on various HTS Fusion programs (20'+5')**

*Friday 12 April 2019 15:15 (25 minutes)***Presenter:** Dr MINERVINI, Joseph (Massachusetts Institute of Technology)**Session Classification:** Session 5

Contribution ID: 22

Type: **not specified**

## **Introduction: Which points are critical to address in R&D programs? Are we covering all what we need?**

*Friday 12 April 2019 16:00 (5 minutes)***Presenter:** ROSSI, Lucio (CERN)**Session Classification:** Session 4

Contribution ID: 23

Type: **not specified**

## CERN R&D for HTS magnets (15' + 5')

*Friday 12 April 2019 17:10 (20 minutes)***Presenter:** DE RIJK, Gijs (CERN)**Session Classification:** Session 4

Contribution ID: 24

Type: **not specified**

## US R&D for HTS accelerator magnets (20'+5')

*Friday 12 April 2019 16:25 (25 minutes)***Presenter:** PRESTEMON, Soren (LBNL)**Session Classification:** Session 4

Contribution ID: 25

Type: **not specified**

## **CEA R&D for HTS (15'+5')**

*Friday 12 April 2019 16:05 (20 minutes)*

**Presenter:** LECREVISSE, Thibault (Université Paris-Saclay (FR))

**Session Classification:** Session 4

Contribution ID: 26

Type: **not specified**

## **Guided discussion on critical points and how to boost solution through collaboration**

*Friday 12 April 2019 17:30 (40 minutes)***Session Classification:** Session 4

Contribution ID: 27

Type: **not specified**

## **Conductor issue with CORC and other cable in CCT configuration (20' + 5')**

**Presenter:** WANG, Xiaorong (Lawrence Berkeley National Laboratory)

**Session Classification:** Session 1

Contribution ID: 28

Type: **not specified**

## **CORC based REBCO conductor for detector magnets (20'+5')**

*Thursday 11 April 2019 16:35 (25 minutes)***Presenter:** TEN KATE, Herman (CERN)**Session Classification:** Session 2

Contribution ID: 29

Type: **not specified**

## **Stability and quench dynamic behaviour of REBCO coils for spherical Tokamaks R&D (25'+5')**

*Friday 12 April 2019 09:50 (30 minutes)***Presenter:** BRITTLES, Greg (Tokamak Energy)**Session Classification:** Session 2

Contribution ID: 30

Type: **not specified**

## REBCO High-field measurements overview (15' + 5')

*Thursday 11 April 2019 14:05 (20 minutes)***Presenter:** FRANCIS, Ashleigh (NHMFL)**Session Classification:** Session 1

Contribution ID: 31

Type: **not specified**

## **Transposition in superconducting cables: are there differences between LTS and HTS?**

*Thursday 11 April 2019 15:30 (20 minutes)***Presenter:** UGLIETTI, Davide (EPFL)**Session Classification:** Session 1

Contribution ID: 32

Type: **not specified**

## **New tape architecture for increasing quench velocity (20' + 5')**

*Friday 12 April 2019 12:10 (25 minutes)***Presenter:** LACROIX, Christian (CERN)**Session Classification:** Special topics

Contribution ID: 33

Type: **not specified**

## **Recent results of H2020-ARIES HTS program (15'+5')**

**Presenter:** SENATORE, Carmine (University of Geneva)

**Session Classification:** Special topics

Contribution ID: 34

Type: **not specified**

## New proposal for HTS gantry (15'+5')

*Friday 12 April 2019 12:35 (20 minutes)***Presenter:** FELCINI, Enrico (EPFL - Ecole Polytechnique Federale Lausanne (CH))**Session Classification:** Special topics

Contribution ID: 35

Type: **not specified**

## **CERN activities for HTS conductor development (15' + 5')**

*Friday 12 April 2019 16:50 (20 minutes)***Presenter:** MATRAS, Maxime (CERN)**Session Classification:** Session 4

Contribution ID: 36

Type: **not specified**

## Recent results of H2020-ARIES HTS Program (15'+5')

*Thursday 11 April 2019 14:25 (20 minutes)***Presenter:** SENATORE, Carmine (University of Geneva)**Session Classification:** Session 1