

**AF7 - Subgroup RF -
miniWorkshop on Innovative
Design and Modeling**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Pushing Brightness and Current limits of Normal-Conducting Radiofrequency Electron Sources

Tuesday, 26 January 2021 09:40 (20 minutes)

Presenter: FILIPPETTO, Daniele (Lawrence Berkeley National Lab)

Session Classification: High current and high brightness guns

Contribution ID: 2

Type: **not specified**

High current high brightness SRF gun (15+5) unable to attend

Presenter: WANG, Erdong (BNL)

Session Classification: High current and high brightness guns

Contribution ID: 3

Type: **not specified**

Bright Electron and Positron Beams and High-Charge Electron Bunches for Beam-driven Structure-WakeField Accelerators

Tuesday, 26 January 2021 10:00 (20 minutes)

Presenter: PIOT, Philippe (Northern Illinois University &&& Fermilab)

Session Classification: Bright beams and wakefields

Contribution ID: 4

Type: **not specified**

Mitigation of Emittance Dilution Due to Wakefields in Accelerator Cavities Using Advanced Diagnostics with Machine Learning Techniques

Tuesday, 26 January 2021 10:20 (20 minutes)

Presenter: LUMPKIN, Alex (Fermilab)

Session Classification: Bright beams and wakefields

Contribution ID: 5

Type: **not specified**

Employing High Epsilon Dielectric Materials for Enhancing Cu Accelerator

Tuesday, 26 January 2021 12:40 (20 minutes)

Presenter: NICHOLS, Kimberley (LANL)

Session Classification: Cavity R&D

Contribution ID: 6

Type: **not specified**

Cavity R&D as part of optimizing the FCC Colliders

Tuesday, 26 January 2021 13:00 (20 minutes)

Presenter: PEUGER, Franck (CERN)

Session Classification: Cavity R&D

Contribution ID: 7

Type: **not specified**

Warm and s.c. RFQ and DTL structures (15+5) (not presented)

Tuesday, 26 January 2021 13:40 (20 minutes)

Presenter: TRUBNIKOV, Grigory (JINR)

Session Classification: Cavity R&D

Contribution ID: 8

Type: **not specified**

Dual Axis Asymmetric SRF cavities (15+5) (not presented)

Tuesday, 26 January 2021 13:20 (20 minutes)

Presenter: KONOPLEV, Ivan (JAI, Department of Physics, University of Oxford)

Session Classification: Cavity R&D

Contribution ID: 9

Type: **not specified**

A modular community ecosystem for multi-physics particle accelerator modeling and design

Tuesday, 26 January 2021 11:10 (20 minutes)

Presenter: VAY, Jean-Luc (Lawrence Berkeley National Laboratory)

Session Classification: Accelerator modeling

Contribution ID: **10**

Type: **not specified**

Design RF cavity geometries with advanced computation methods

Tuesday, 26 January 2021 11:30 (20 minutes)

Presenter: LUO, Tianhuan (LBL)

Session Classification: Accelerator modeling

Contribution ID: 11

Type: **not specified**

RF computations: Needs in performance, capability, and optimization

Tuesday, 26 January 2021 11:50 (20 minutes)

Presenter: CARY, John (University of Colorado)

Session Classification: Accelerator modeling