

ICFA Mini-Workshop on Slow Extraction, 2019

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome at Fermilab

Contribution ID: 1

Type: **not specified**

Welcome and Introduction

Monday, 22 July 2019 08:30 (15 minutes)

Presenter: Dr NAGASLAEV, Vladimir (Fermilab)

Session Classification: Session 1

Contribution ID: 2

Type: **not specified**

Mu2e Experiment and Requirements for the SX

Monday, 22 July 2019 08:45 (30 minutes)

Presenter: Dr BERNSTEIN, Robert (Fermilab)

Session Classification: Session 1

Contribution ID: 3

Type: **not specified**

Status of the SX for the Mu2e Experiment

Monday, 22 July 2019 09:15 (30 minutes)

Presenter: Dr NAGASLAEV, Vladimir (Fermilab)

Session Classification: Session 1

Contribution ID: 4

Type: **not specified**

Overview of the SX in the Main Injector at Fermilab

Monday, 22 July 2019 10:10 (30 minutes)

Presenter: MORRIS, Denton (Fermilab)

Session Classification: Session 2

Contribution ID: 5

Type: **not specified**

J-PARC Slow Extraction Status and Plans

Monday, 22 July 2019 11:00 (30 minutes)

Presenter: Prof. TOMIZAWA, Masahito (KEK/J-PARC)

Session Classification: Session 2

Contribution ID: 6

Type: **not specified**

Slow Extraction and Spill Control from BNLs AGS and Booster

Monday, 22 July 2019 11:30 (30 minutes)

Presenter: BROWN, Kevin (Brookhaven National Laboratory)

Session Classification: Session 2

Contribution ID: 7

Type: **not specified**

Status and Progress in PIMMS-Family Machines

Monday, 22 July 2019 12:00 (30 minutes)

Primary author: PULLIA, Marco (CNAO)

Presenter: PULLIA, Marco (CNAO)

Session Classification: Session 2

Contribution ID: 8

Type: **not specified**

Overview of Medical SX Machines in Japan

Monday, 22 July 2019 12:30 (30 minutes)

Primary author: Prof. NODA, Koji (QST)

Presenter: Prof. NODA, Koji (QST)

Session Classification: Session 2

Contribution ID: 9

Type: **not specified**

Using the multipoles and higher order effects in the 3rd integer Slow Extraction

Presenter: Dr NAGASLAEV, Vladimir (Fermilab)

Contribution ID: **10**

Type: **not specified**

Advanced Control of Phase Space Presentation of Slow-Extraction Separatrix at ES

Monday, 22 July 2019 14:00 (30 minutes)

Presenter: KAIN, Verena (CERN)

Session Classification: Session 3

Contribution ID: 11

Type: **not specified**

Diffuser for Loss Reduction

Monday, 22 July 2019 14:30 (30 minutes)

Presenter: GODDARD, Brennan (CERN)

Session Classification: Session 3

Contribution ID: 12

Type: **not specified**

Using the multipoles and higher order effects in the 3rd integer Slow Extraction

Monday, 22 July 2019 16:00 (30 minutes)

Presenter: Dr NAGASLAEV, Vladimir (Fermilab)

Session Classification: Session 4

Contribution ID: 13

Type: **not specified**

Multipoles and demonstration of slow extraction loss reduction

Monday, 22 July 2019 16:30 (30 minutes)

Presenter: FRASER, Matthew (CERN)

Session Classification: Session 4

Contribution ID: 14

Type: **not specified**

Tutorial: Kobayashi (N-turn) Hamiltonians for Slow Extraction Optics Design

Monday, 22 July 2019 17:00 (1 hour)

Presenter: Dr PEGGS, Steve (BNL)

Session Classification: Session 4

Contribution ID: 15

Type: **not specified**

Controlling the Temporal Spill Structure

Tuesday, 23 July 2019 09:00 (30 minutes)

Presenter: PARI, Michelangelo (CERN)

Session Classification: Session 5

Contribution ID: 16

Type: **not specified**

Spill Regulation for J-PARC Slow Extraction

Tuesday, 23 July 2019 09:30 (30 minutes)

Presenter: Mr MUTO, Ryotaro (KEK)

Session Classification: Session 5

Contribution ID: 17

Type: **not specified**

Spill Structure Improvements at GSI

Tuesday, 23 July 2019 10:30 (30 minutes)

Presenter: SINGH, Rahul (GSI)

Session Classification: Session 6

Contribution ID: **18**

Type: **not specified**

Spill Stabilisation by Tune Ripple Cancellation at Ion-Beam Therapy Synchrotrons

Tuesday, 23 July 2019 11:00 (30 minutes)

Presenter: KRANTZ, Claude (MIT)

Session Classification: Session 6

Contribution ID: 19

Type: **not specified**

Advanced RF-KO excitation methods for high quality spills

Tuesday, 23 July 2019 11:30 (30 minutes)

Presenter: FABER, Fiona (HIT)

Session Classification: Session 6

Contribution ID: 20

Type: **not specified**

Burned Wires at MI Septa

Tuesday, 23 July 2019 13:00 (30 minutes)

Presenter: MORRIS, Denton (Fermilab)

Session Classification: Session 7

Contribution ID: 21

Type: **not specified**

Machine Protection for SE at SPS

Tuesday, 23 July 2019 13:30 (30 minutes)

Presenter: KAIN, Verena (CERN)

Session Classification: Session 7

Contribution ID: 22

Type: **not specified**

Machine Protection System for J-PARC Slow Extraction

Tuesday, 23 July 2019 14:00 (30 minutes)

Presenter: Dr KIMURA, Takuro (KEK/J-PARC)

Session Classification: Session 7

Contribution ID: 23

Type: **not specified**

RF Excitation Modes in the MI Septa

Tuesday, 23 July 2019 14:30 (30 minutes)

Presenter: AINSWORTH, Robert (Fermilab)

Session Classification: Session 7

Contribution ID: 24

Type: **not specified**

Recent Experience with Slow Extraction Prompt Beam Loss Mapping Using FLUKA at SPS

Tuesday, 23 July 2019 15:00 (30 minutes)

Presenter: ESPOSITO, Luigi Salvatore

Session Classification: Session 7

Contribution ID: 25

Type: **not specified**

Slow Extraction of High Energy Leptons with RF on and SR

Tuesday, 23 July 2019 17:00 (30 minutes)

Presenter: Dr DUTHELL, Yann (CERN)

Session Classification: Session 8

Contribution ID: 26

Type: **not specified**

Speeding up Numerical Simulations with PTC Maps at Arbitrary Order

Tuesday, 23 July 2019 17:30 (30 minutes)

Presenter: VELOTTI, Francesco (CERN)

Session Classification: Session 8

Contribution ID: 27

Type: **not specified**

Carbon Nanotube ES wire Studies at CERN

Tuesday, 23 July 2019 18:00 (30 minutes)

Presenter: BORBURGH, Jan (CERN)

Session Classification: Session 8

Contribution ID: 28

Type: **not specified**

Fermilab Seminar: Overview of Slow Extraction Progress and Development at CERN

Tuesday, 23 July 2019 16:00 (1 hour)

Presenter: FRASER, Matthew (CERN)

Contribution ID: 29

Type: **not specified**

Machine Learning and Automated Optimisation

Wednesday, 24 July 2019 08:30 (40 minutes)

Presenter: KAIN, Verena (CERN)

Session Classification: Session 9

Contribution ID: **30**

Type: **not specified**

Analytical and Numerical Methods for Nonlinear Dynamics

Wednesday, 24 July 2019 09:10 (40 minutes)

Presenter: ZOLKIN, Timofey

Session Classification: Session 9

Contribution ID: **31**

Type: **not specified**

Recap on Beam Transit Time to Extraction

Wednesday, 24 July 2019 09:50 (40 minutes)

Presenter: Dr PULLIA, Marco (CNAO Foundation)

Session Classification: Session 9

Contribution ID: 32

Type: **not specified**

Mu2e ESS Design Update

Wednesday, 24 July 2019 08:31 (29 minutes)

Presenter: ALVAREZ, Matthew (Fermilab)

Session Classification: Engineering session, Part I

Contribution ID: 33

Type: **not specified**

Electrostatic Septa for J-PARC Slow Extraction

Wednesday, 24 July 2019 09:30 (30 minutes)

Presenter: Mr ARAKAKI, yoshitsugu (KEK)

Session Classification: Engineering session, Part I

Contribution ID: 34

Type: **not specified**

Hardware changes to limit activation of the SPS slow extraction region

Wednesday, 24 July 2019 10:00 (30 minutes)

Presenter: Mr BORBURGH, Jan (CERN)

Session Classification: Engineering session, Part I

Contribution ID: 35

Type: **not specified**

Anode straightness: challenges and hints for solutions

Presenter: Mr BORBURGH, Jan (CERN)

Contribution ID: **36**

Type: **not specified**

Volumetric FC-40 exchange in the HV FT

Presenter: ALVAREZ, Matthew (Fermilab)

Contribution ID: 37

Type: **not specified**

Overview of Slow Extraction at CERN

Monday, 22 July 2019 10:40 (20 minutes)

Presenter: FRASER, Matthew (CERN)

Session Classification: Session 2

Contribution ID: **38**

Type: **not specified**

Crystal Shadowing for Loss Reduction

Monday, 22 July 2019 15:00 (30 minutes)

Primary author: VELOTTI, F. (CERN)

Presenter: VELOTTI, Francesco (CERN)

Session Classification: Session 3

Contribution ID: 39

Type: **not specified**

Stepping motor instead of DC motor positioning systems

Presenter: Mr BORBURGH, Jan (CERN)

Contribution ID: 40

Type: **not specified**

Measuring and Maintaining Septum Frame Rail Straightness

Wednesday, 24 July 2019 11:01 (30 minutes)

Presenter: CURFMAN, Noah

Session Classification: Engineering session, Part II

Contribution ID: 41

Type: **not specified**

Septum Wire Deflection Under High ES Field

Wednesday, 24 July 2019 09:00 (30 minutes)

Presenter: BALHAN, Bruno

Session Classification: Engineering session, Part I

Contribution ID: 42

Type: **not specified**

Homework

Wednesday, 24 July 2019 13:00 (20 minutes)

Presenter: GODDARD, Brennan (CERN)

Session Classification: Session 11

Contribution ID: 43

Type: **not specified**

Misc. discussion questions

Wednesday, 24 July 2019 11:00 (20 minutes)

Presenter: Dr NAGASLAEV, Vladimir (Fermilab)

Session Classification: Session 10

Contribution ID: 44

Type: **not specified**

Final Thanks

Wednesday, 24 July 2019 13:40 (20 minutes)

Presenter: Dr NAGASLAEV, Vladimir (Fermilab)

Session Classification: Session 11

Contribution ID: 45

Type: **not specified**

Next Workshop

Wednesday, 24 July 2019 13:20 (20 minutes)

Presenter: Prof. TOMIZAWA, Masahito (KEK/J-PARC)

Session Classification: Session 11