

NBI2017: 10th International Workshop on Neutrino Beams and Instrumentation + 4th RaDIATE Meeting



Report of Contributions

Contribution ID: 0

Type: **not specified**

Opening Remark

Monday, September 18, 2017 10:15 AM (10 minutes)

Presenter: ISHIDA, Taku (J-PARC/KEK)

Session Classification: Welcome Address

Contribution ID: 1

Type: **not specified**

Welcome to J-PARC

Monday, September 18, 2017 10:25 AM (20 minutes)

Presenter: KOSEKI, Tadashi (J-PARC)

Session Classification: Welcome Address

Contribution ID: 2

Type: **not specified**

NuMI-NOVA, BNB, PIP's Facility Updates/Overview

Presenter: ZWASKA, Robert (Fermilab)

Contribution ID: 3

Type: **not specified**

J-PARC Accelerators

Monday, September 18, 2017 11:00 AM (30 minutes)

Presenter: IGARASHI, Susumu (J-PARC/KEK)

Session Classification: Facility Operation Updates & Future Facilities

Contribution ID: 4

Type: **not specified**

J-PARC Neutrino Facility - T2K, T2K2 & Hyper-K

Monday, September 18, 2017 11:30 AM (30 minutes)

Presenter: FUJII, Yoshiaki (J-PARC/KEK)

Session Classification: Facility Operation Updates & Future Facilities

Contribution ID: 5

Type: **not specified**

Overview of the LBNF/DUNE Beamline

Monday, September 18, 2017 1:15 PM (30 minutes)

Presenter: PAPADIMITRIOU, Vaia (Fermilab)

Session Classification: Facility Operation Updates & Future Facilities

Contribution ID: 6

Type: **not specified**

J-PARC Neutrino Facility Upgrade

Monday, September 18, 2017 1:45 PM (30 minutes)

Presenter: SEKIGUCHI, Tetruro (J-PARC/KEK)

Session Classification: Facility Operation Updates & Future Facilities

Contribution ID: 7

Type: **not specified**

CERN SPS facilities/Beam Dump Facility - SHiP

Monday, September 18, 2017 2:15 PM (30 minutes)

Presenter: CALVIANI, Marco (CERN)

Session Classification: Facility Operation Updates & Future Facilities

Contribution ID: 8

Type: **not specified**

NuMI beam permit system and experience on rogue pulses

Monday, September 18, 2017 2:45 PM (20 minutes)

Presenter: CHILDRESS, Sam (Fermilab)

Session Classification: Beam Interlock System

Contribution ID: 9

Type: **not specified**

J-PARC beam interlock and experience on miss shots

Monday, September 18, 2017 3:05 PM (20 minutes)

Presenter: SAKASHITA, Ken (J-PARC/KEK)

Session Classification: Beam Interlock System

Contribution ID: **10**

Type: **not specified**

J-PARC Nu Primary Beamline, Monitors & Upgrade

Monday, September 18, 2017 3:40 PM (30 minutes)

Presenter: FRIEND, Megan (J-PARC/KEK)

Session Classification: Primary Beamline & Beam Monitors

Contribution ID: 11

Type: **not specified**

FNAL Neutrino Beam Monitoring

Monday, September 18, 2017 4:10 PM (20 minutes)

Presenter: HYLEN, James

Session Classification: Primary Beamline & Beam Monitors

Contribution ID: 12

Type: **not specified**

J-PARC Nu Radioactive Waste Treatment*

Monday, September 18, 2017 5:10 PM (20 minutes)

- Originally scheduled on 20th radiation safety session

Presenter: OYAMA, Yuichi (J-PARC/KEK)

Session Classification: Primary Beamline & Beam Monitors

Contribution ID: **13**

Type: **not specified**

J-PARC Nu OTR

Monday, September 18, 2017 4:30 PM (20 minutes)

Presenter: YU, Mitchell (York U.)

Session Classification: Primary Beamline & Beam Monitors

Contribution ID: 14

Type: **not specified**

J-PARC Nu Muon Monitor

Monday, September 18, 2017 4:50 PM (20 minutes)

Presenter: ASHIDA, Yosuke (Kyoto-U.)

Session Classification: Primary Beamline & Beam Monitors

Contribution ID: 15

Type: **not specified**

T2K Neutrino Flux Prediction

Tuesday, September 19, 2017 9:15 AM (20 minutes)

Presenter: VLADISAVLJEVIC, Tomislav (Kavli IPM)

Session Classification: Neutrino Flux Prediction & Hadron Production Measurements

Contribution ID: 16

Type: **not specified**

NuMI Neutrino Flux Prediction (VC)

Tuesday, September 19, 2017 9:35 AM (20 minutes)

Presenter: SOPLIN, Leonidas Aliaga (Fermilab)

Session Classification: Neutrino Flux Prediction & Hadron Production Measurements

Contribution ID: 17

Type: **not specified**

LBNF Neutrino Flux Prediction

Tuesday, September 19, 2017 9:55 AM (20 minutes)

Presenter: BISHAI, Mary (BNL)

Session Classification: Neutrino Flux Prediction & Hadron Production Measurements

Contribution ID: **18**

Type: **not specified**

Hadron Production Measurement at CERN-NA61 (VC)

Tuesday, September 19, 2017 10:15 AM (20 minutes)

Presenter: NAGAI, Yoshikazu (U. Colodaro Boulder)

Session Classification: Neutrino Flux Prediction & Hadron Production Measurements

Contribution ID: 19

Type: **not specified**

Very low energy beamlines at CERN North area

Tuesday, September 19, 2017 10:35 AM (20 minutes)

Presenter: CHARITONIDIS, Nikolaos (CERN)

Session Classification: Neutrino Flux Prediction & Hadron Production Measurements

Contribution ID: 20

Type: **not specified**

T2K horn status & upgrade

Tuesday, September 19, 2017 11:10 AM (25 minutes)

Presenter: SEKIGUCHI, Tetsuro (J-PARC/KEK)

Session Classification: Horns

Contribution ID: 21

Type: **not specified**

T2K horn production

Tuesday, September 19, 2017 11:35 AM (20 minutes)

Presenter: ZIMMERMAN, Eric (U. Colodaro Boulder)

Session Classification: Horns

Contribution ID: 22

Type: **not specified**

NuMI-NOVA/LBNF horn

Tuesday, September 19, 2017 11:55 AM (25 minutes)

Presenters: CROWLEY, Cory (Fermilab); HURH, Patrick (Fermilab); ZWASKA, Robert (Fermilab)

Session Classification: Horns

Contribution ID: 23

Type: **not specified**

BNB/T2K horns for high current operation

Tuesday, September 19, 2017 12:20 PM (30 minutes)

Presenter: BARTOSZEK, Larry (Bartoszek Eng.)

Session Classification: Horns

Contribution ID: 24

Type: **not specified**

Antiproton production horn operation and testing

Tuesday, September 19, 2017 12:50 PM (25 minutes)

Presenter: LOPEZ SOLA, Edmundo (CERN)

Session Classification: Horns

Contribution ID: 25

Type: **not specified**

Design of the LBNF Target Station, Decay Pipe and Absorber

Tuesday, September 19, 2017 2:30 PM (45 minutes)

Presenter: TARIQ, Salman (Fermilab)

Session Classification: Decay Volume, Beam Dump & Facility Design

Contribution ID: 26

Type: **not specified**

BDF Facility Design Challenges

Tuesday, September 19, 2017 3:15 PM (30 minutes)

Presenter: CALVIANI, Marco (CERN)

Session Classification: Decay Volume, Beam Dump & Facility Design

Contribution ID: 27

Type: **not specified**

Helium vessel cooling and ventilation system conceptual design

Tuesday, September 19, 2017 3:45 PM (20 minutes)

Presenter: AVIGNI, Pietro (CERN)

Session Classification: Decay Volume, Beam Dump & Facility Design

Contribution ID: **28**

Type: **not specified**

LBNF remote maintenance

Tuesday, September 19, 2017 4:20 PM (30 minutes)

Presenter: SIDOROV, Vladimir (Fermilab)

Session Classification: Remote Maintenance

Contribution ID: 29

Type: **not specified**

Design/operation of the new SPS internal beam dump (TIDVG4) & development of the next generation (TIDVG5)

Tuesday, September 19, 2017 4:50 PM (30 minutes)

Presenter: CALVIANI, Marco (CERN)

Session Classification: Remote Maintenance

Contribution ID: **30**

Type: **not specified**

J-PARC Nu Beam Window Maintenance

Tuesday, September 19, 2017 5:20 PM (30 minutes)

Presenter: TADA, Masaru (J-PARC/KEK)

Session Classification: Remote Maintenance

Contribution ID: **31**

Type: **not specified**

Keynote Lecture: NuMI 700kW Operation

Tuesday, September 19, 2017 6:20 PM (1 hour)

Presenter: HYLEN, James (Fermilab)

Session Classification: Keynote Lecture : NuMi 700kW operation

Contribution ID: 32

Type: **not specified**

NuMI/LBNF Radiation Protection

Wednesday, September 20, 2017 9:40 AM (25 minutes)

Presenter: HYLEN, James (Fermilab)

Session Classification: Radiation Protection & Waste Treatments

Contribution ID: 33

Type: **not specified**

Hadron Monitor R&D for LBNF*

Wednesday, September 20, 2017 9:15 AM (25 minutes)

- Originally scheduled at 18th beam monitor session

Presenter: SUN, Jilei (IHEP)

Session Classification: Radiation Protection & Waste Treatments

Contribution ID: 34

Type: **not specified**

Radiation & Environmental Issues for BDF

Wednesday, September 20, 2017 10:05 AM (25 minutes)

Presenter: CASOLINO, Mirkoantonio (CERN)

Session Classification: Radiation Protection & Waste Treatments

Contribution ID: 35

Type: **not specified**

NuMI-NOVA target & window

Wednesday, September 20, 2017 10:45 AM (25 minutes)

Presenter: AMMIGAN, Kavin (Fermilab)

Session Classification: Neutrino Target & Window

Contribution ID: 36

Type: **not specified**

J-PARC Nu target & window

Wednesday, September 20, 2017 11:10 AM (25 minutes)

Presenter: NAKADAIRA, Takeshi (J-PARC/KEK)

Session Classification: Neutrino Target & Window

Contribution ID: 37

Type: **not specified**

LBNF target

Wednesday, September 20, 2017 11:35 AM (25 minutes)

Presenter: DENSHAM, Chris (STFC)

Session Classification: Neutrino Target & Window

Contribution ID: **38**

Type: **not specified**

BDF target design and prototyping

Wednesday, September 20, 2017 12:00 PM (25 minutes)

Presenter: LOPEZ SOLA, Edmundo (CERN)

Session Classification: Neutrino Target & Window

Contribution ID: 39

Type: **not specified**

Welcome and Targetry Overview

Thursday, September 21, 2017 9:15 AM (30 minutes)

Presenter: FUTAKAWA, Masatoshi (J-PARC)

Session Classification: Welcome Address

Contribution ID: 40

Type: **not specified**

RaDIATE 4th Annual Collaboration Meeting Objectives

Thursday, September 21, 2017 9:45 AM (10 minutes)

Presenter: HURH, Patrick (Fermilab)

Session Classification: Welcome Address

Contribution ID: 41

Type: **not specified**

SNS (VC)

Thursday, September 21, 2017 9:55 AM (25 minutes)

Presenter: MCCLINTOCK, David (SNS)

Session Classification: Neutron Facilities & HPT Radiation Damage Studies

Contribution ID: 42

Type: **not specified**

Graphite micro mechanical studies (VC)

Thursday, September 21, 2017 10:20 AM (25 minutes)

Presenter: LIU, Dong (Oxford)

Session Classification: HPT Radiation Damage Studies, PIE Testing & Techniques

Contribution ID: 43

Type: **not specified**

Micro-Mechanical Studies & Scalability (VC)

Thursday, September 21, 2017 10:45 AM (25 minutes)

Presenter: HOSEMAN, Peter (Berkely)

Session Classification: HPT Radiation Damage Studies, PIE Testing & Techniques

Contribution ID: 44

Type: **not specified**

MLF

Thursday, September 21, 2017 11:25 AM (25 minutes)

Presenter: TAKADA, Hiroshi (J-PARC/JAEA)

Session Classification: Neutron Facilities & HPT Radiation Damage Studies

Contribution ID: 45

Type: **not specified**

ESS

Thursday, September 21, 2017 11:50 AM (25 minutes)

Presenter: LEE, Yongjoong (ESS)

Session Classification: Neutron Facilities & HPT Radiation Damage Studies

Contribution ID: 46

Type: **not specified**

CSNS and MOMENT project overview and current status

Thursday, September 21, 2017 12:15 PM (20 minutes)

Presenter: SUN, Jilei (IHEP)

Session Classification: Neutron Facilities & HPT Radiation Damage Studies

Contribution ID: 47

Type: **not specified**

Development of the high heat flux component for a fusion reactor

Thursday, September 21, 2017 12:35 PM (25 minutes)

Presenter: TOKITANI, Masayuki (NIFS)

Session Classification: Neutron Facilities & HPT Radiation Damage Studies

Contribution ID: 48

Type: **not specified**

mu2e target

Thursday, September 21, 2017 2:15 PM (25 minutes)

Presenter: DENSHAM, Chris (STFC)

Session Classification: Nuclear/Rare Process Physics Facilities & HPT Radiation Damage Studies

Contribution ID: 49

Type: **not specified**

J-PARC Hadron Experimental Facility

Thursday, September 21, 2017 2:40 PM (25 minutes)

Presenter: TAKAHASHI, Hitoshi (J-PARC/KEK)

Session Classification: Nuclear/Rare Process Physics Facilities & HPT Radiation Damage Studies

Contribution ID: 50

Type: **not specified**

Irradiation Material Studies for NSCL and FRIB

Thursday, September 21, 2017 3:05 PM (25 minutes)

Presenter: PELLEMOINE, Frederique (MSU)

Session Classification: Nuclear/Rare Process Physics Facilities & HPT Radiation Damage Studies

Contribution ID: 51

Type: **not specified**

Summary of the NBI 2017

Thursday, September 21, 2017 3:30 PM (25 minutes)

Presenter: ISHIDA, Taku (J-PARC/KEK)

Session Classification: NBI Workshop Wrap-up

Contribution ID: 52

Type: **not specified**

Next NBI2019

Presenters: DENSHAM, Chris (SFTC); CALVIANI, Marco (CERN)

Contribution ID: 53

Type: **not specified**

Beryllium

Thursday, September 21, 2017 4:10 PM (25 minutes)

Presenter: KUKSENKO, Slava (Oxford)

Session Classification: HPT Radiation Damage Studies, PIE Testing & Techniques

Contribution ID: 54

Type: **not specified**

PNNL (Graphite/Ti)

Presenter: CASSELA, Andy (PNNL)

Contribution ID: 55

Type: **not specified**

Meso-scale fatigue testing

Presenter: GONG, Jicheng (Univ. Oxford)

Contribution ID: 56

Type: **not specified**

Introduction of radiation damage estimation in high energy region using the PHITS code

Thursday, September 21, 2017 4:35 PM (20 minutes)

Presenter: IWAMOTO, Yosuke (J-PARC/JAEA)

Session Classification: Monte Carlo Codes for Radiation Damage Estimation

Contribution ID: 57

Type: **not specified**

FLUKA

Thursday, September 21, 2017 4:55 PM (20 minutes)

Presenter: VLACHOUDIS, Vasilis (CERN)

Session Classification: Monte Carlo Codes for Radiation Damage Estimation

Contribution ID: 58

Type: **not specified**

MARS

Thursday, September 21, 2017 5:15 PM (20 minutes)

Presenter: MOKHOV, Nikolai (Fermilab)

Session Classification: Monte Carlo Codes for Radiation Damage Estimation

Contribution ID: 59

Type: **not specified**

Inter-comparison

Thursday, September 21, 2017 5:35 PM (25 minutes)

Presenters: MOKHOV, Nikolai (Fermilab); VLACHOUDIS, Vasilis (CERN); IWAMOTO, Yosuke (J-PARC/JAEA)

Session Classification: Monte Carlo Codes for Radiation Damage Estimation

Contribution ID: **60**

Type: **not specified**

Nano-fiber material

Friday, September 22, 2017 9:15 AM (25 minutes)

Presenter: BIDHAR, Sujit (Fermilab)

Session Classification: Novel Materials for Targetry Application

Contribution ID: **61**

Type: **not specified**

Material R&D for beam intercepting devices

Presenter: PERILLO-MARCONI, Antonio (CERN)

Contribution ID: 62

Type: **not specified**

Ductile Tungsten alloy

Friday, September 22, 2017 9:40 AM (25 minutes)

Presenter: KURISHITA, Hiroaki (KEK)

Session Classification: Novel Materials for Targetry Application

Contribution ID: 63

Type: **not specified**

SiC/SiC Composite & SiC-Coated Graphite

Friday, September 22, 2017 10:05 AM (25 minutes)

Presenter: MAKIMURA, Shunsuke (J-PARC/KEK)

Session Classification: Novel Materials for Targetry Application

Contribution ID: 64

Type: **not specified**

Ion Beam Facilities in Japan (TIARA/DuET/HIT)

Friday, September 22, 2017 11:10 AM (25 minutes)

Presenter: WAKAI, Eiichi (J-PARC/JAEA)

Session Classification: Low Energy Ion Beam Facilities & PIE Activities in Japan

Contribution ID: 65

Type: **not specified**

PSI SINO specimen PIE at JAEA-WASTEF

Friday, September 22, 2017 11:35 AM (25 minutes)

Presenter: SAITO, Shigeru (J-PARC/JAEA)

Session Classification: Low Energy Ion Beam Facilities & PIE Activities in Japan

Contribution ID: 66

Type: **not specified**

Measurement displacement cross section of window&target materials at J-PARC

Friday, September 22, 2017 12:00 PM (25 minutes)

Presenter: MEIGO, Shin-Ichiro (J-PARC/JAEA)

Session Classification: Low Energy Ion Beam Facilities & PIE Activities in Japan

Contribution ID: 67

Type: **not specified**

BLIP 2017 summary and 2018 plan

Friday, September 22, 2017 1:40 PM (30 minutes)

Presenter: AMMIGAN, Kavin (Fermilab)

Session Classification: BLIP Irradiation Experiment Status & Plans

Contribution ID: **68**

Type: **not specified**

PIE preparation status at PNNL

Friday, September 22, 2017 2:10 PM (25 minutes)

Presenter: SENOR, David (PNNL)

Session Classification: BLIP Irradiation Experiment Status & Plans

Contribution ID: 69

Type: **not specified**

Ti Capsule PIE plan and a new Ti-3 capsule

Friday, September 22, 2017 2:35 PM (20 minutes)

Presenter: ISHIDA, Taku (J-PARC/KEK)

Session Classification: BLP Irradiation Experiment Status & Plans

Contribution ID: 70

Type: **not specified**

Si&Heavy Capsule and a new capsule

Friday, September 22, 2017 3:20 PM (20 minutes)

Presenter: FORNASIERE, Elvis (CERN)

Session Classification: BLP Irradiation Experiment Status & Plans

Contribution ID: 71

Type: **not specified**

Material R&D for beam intercepting devices, CERN HiRadMat experiment plans

Friday, September 22, 2017 4:25 PM (30 minutes)

Presenter: CALVIANI, Marco (CERN)

Session Classification: HiRadMat Thermal Shock Experiment Plans

Contribution ID: 72

Type: **not specified**

Plans for 2018 BeGrid2 experiment at HiRadMat

Friday, September 22, 2017 3:55 PM (30 minutes)

Presenter: AMMIGAN, Kavin (Fermilab)

Session Classification: HiRadMat Thermal Shock Experiment Plans

Contribution ID: 73

Type: **not specified**

RaDIATE session summary

Friday, September 22, 2017 4:55 PM (15 minutes)

Presenter: HURH, Patrick (Fermilab)

Session Classification: RaDIATE session: Summary

Contribution ID: 74

Type: **not specified**

Next In-person CM

Friday, September 22, 2017 5:10 PM (10 minutes)

Presenter: CALVIANI, Marco (CERN)

Session Classification: RaDIATE session: Summary

Contribution ID: 75

Type: **not specified**

PNNL (Graphite/Ti)

Friday, September 22, 2017 10:30 AM (25 minutes)

Presenter: CASELLA, Andy (PNNL)

Session Classification: Novel Materials for Targetry Application

Contribution ID: 76

Type: **not specified**

Meso-scale fatigue testing

Friday, September 22, 2017 2:55 PM (25 minutes)

Presenters: GONG, Jicheng (Univ. Oxford); KUKSENKO, Slava (Univ. Oxford)

Session Classification: BLIP Irradiation Experiment Status & Plans