

2012 Project X Collaboration Meeting



Report of Contributions

Contribution ID: 0

Type: **not specified**

Continued discussion of Project X capabilities with Intensity Frontier Workshop chairs and conveners

Presenter: Dr TSCHIRHART, Robert (Fermilab)

Contribution ID: 1

Type: **not specified**

Pulsed Linac Overview and plans

Presenter: Dr SOLYAK, Nikolay (FNAL)

Contribution ID: 2

Type: **not specified**

HLRF Overview and Plans

Presenter: REID, John (Fermilab)

Contribution ID: 3

Type: **not specified**

Status and Plans for Pulsed Linac Transfer Lines

Presenter: JOHNSON, David (Fermilab)

Contribution ID: 4

Type: **not specified**

LLRF Requirements, Status and Plans

Presenter: Mr CHASE, Brian Chase (FNAL)

Contribution ID: 5

Type: **not specified**

Longitudinal Beam Dynamics: towards Defining LLRF Requirements for the 3-8 GeV Pulsed Linac

Presenter: Dr CANCELO, gustavo (fermilab)

Contribution ID: 6

Type: **not specified**

SCREAM Results for Longitudinal Dynamics in Pulsed Linac

Presenter: EIDELMAN, Yury (Fermilab)

Contribution ID: 7

Type: **not specified**

Lorentz Force Detuning Compensation for Pulsed Linac: First Results and Short Term Plan

Presenter: PISCHALNIKOV, Yuriy

Contribution ID: 8

Type: **not specified**

Discussion

Contribution ID: 9

Type: **not specified**

MI Single Bunch Tune Measurements

Presenter: Dr SCOTT, Duncan (Fermilab)

Contribution ID: **10**

Type: **not specified**

Status and Plans for the IPM and Electron Beam Profiler

Presenters: Mr ZAGEL, Jim (FNAL); THURMAN-KEUP, Randy (Fermilab)

Contribution ID: 11

Type: **not specified**

Status and Plans for H-Injection

Presenter: JOHNSON, David (Fermilab)

Contribution ID: 12

Type: **not specified**

Discussion

Contribution ID: **13**

Type: **not specified**

General Comments

Presenter: Dr KOURBANIS, Ioanis (Fermilab)

Contribution ID: 14

Type: **not specified**

MI-rf Status and Plans

Presenters: Mr DEY, Joseph (Fermialb); XIAO, Liling (SLAC National Accelerator Laboratory)

Contribution ID: 15

Type: **not specified**

MI Coating Studies

Presenters: Mr CAPISTA, DAvid (BD/MI); VALERIO, Linda (Fermilab)

Contribution ID: 16

Type: **not specified**

Electron Cloud Studies/Measurements

Presenter: Dr ZWASKA, Bob (Fermilab)

Contribution ID: 17

Type: **not specified**

MI Space Charge Simulations

Presenter: Dr STERN, Eric (FNAL)

Contribution ID: **18**

Type: **not specified**

Continued Discussion of Project X Muon Beam Concepts

Presenter: Dr TSCHIRHART, Robert (Fermilab)

Contribution ID: 19

Type: **not specified**

Review of Muon Production Yields

Presenter: Dr STRIGANOV, Sergei (Fermilab)

Contribution ID: 20

Type: **not specified**

Review of JPARC and PSI Muon Beams

Presenter: Dr TSCHIRHART, Robert (Fermilab)

Contribution ID: 21

Type: **not specified**

Detailed Discussion of Project X Muon Beam Concepts

Presenter: Dr LEBEDEV, Valeri (Fermilab)

Contribution ID: 22

Type: **not specified**

Discussion of Radiation Shielding - Options

Presenter: Dr PRONSKIKH, Vitaly (Fermilab)

Contribution ID: 23

Type: **not specified**

Review of the ADS White Paper

Presenter: Dr HENDERSON, Stuart (Fermilab)

Contribution ID: 24

Type: **not specified**

Discussion

Contribution ID: 25

Type: **not specified**

Welcome - Overview of LBNL Accelerator Programs

Contribution ID: 26

Type: **not specified**

Project X News, Strategy, Meeting Goals

Presenter: HOLMES, Stephen (Fermilab)

Contribution ID: 27

Type: **not specified**

PXIE Overview: Goals, Concepts and Planning

Presenter: NAGAITSEV, Sergei (FNAL)

Contribution ID: **28**

Type: **not specified**

ESS Activities

Presenter: Dr MCGINNIS, David (ESS)

Contribution ID: 29

Type: **not specified**

Physics Research Opportunities at Project X

Presenter: Dr TSCHIRHART, Robert (Fermilab)

Contribution ID: **30**

Type: **not specified**

Overview of SLAC Accelerator Programs

Contribution ID: **31**

Type: **not specified**

DOE Intensity Frontier Workshop

Presenters: Prof. WEERTS, Hendrik (Argonne National Laboratory); HEWETT, Joanne (Stanford University)

Contribution ID: 32

Type: **not specified**

Muons at PX Task Force

Presenter: Dr LEBEDEV, Valeri (Fermilab)

Contribution ID: 33

Type: **not specified**

Muon Collider Task Force

Presenter: Dr GOLLWITZER, Keith (Fermilab)

Contribution ID: **34**

Type: **not specified**

PXIE Optics and beam physics

Presenter: Dr LEBEDEV, Valeri (Fermilab)

Contribution ID: 35

Type: **not specified**

Overview of PXIE Front-End R&D at LBNL

Presenter: Dr LI, Derun (LBNL)

Contribution ID: **36**

Type: **not specified**

LEBT and LEBT Chopper Design Requirements for PXIE

Presenter: PROST, Lionel (Fermilab)

Contribution ID: 37

Type: **not specified**

Ion Source, LEBT at LBNL: test goals, configuration, schedule

Presenter: JI, Qing (Lawrence Berkeley Laboratory)

Contribution ID: **38**

Type: **not specified**

LEBT and RFQ Physics Design

Presenter: STAPLES, John (Lawrence Berkeley Laboratory)

Contribution ID: 39

Type: **not specified**

RF Design Studies of PXIE RFQ and buncher activities

Presenter: Dr ROMANOV, Gennady (Fermilab)

Contribution ID: 40

Type: **not specified**

RFQ Engineering Design and Fabrication Plan

Presenter: VIROSTEK, Steve (Lawrence Berkeley National Lab)

Contribution ID: 41

Type: **not specified**

Slow Tuner

Presenter: ZINKANN, Gary (Argonne National Laboratory)

Contribution ID: 42

Type: **not specified**

Cavity EP, Clean Rom Procedures, Assembly of Cavity String

Presenter: KELLY, Michael (Argonne National Laboratory)

Contribution ID: 43

Type: **not specified**

Concepts for the Cryomodule Design

Presenter: CONWAY, Zachary (Argonne National Laboratory)

Contribution ID: 44

Type: **not specified**

Operational Experience with a SC Linac

Presenter: ZINKANN, Gary (Argonne National Laboratory)

Contribution ID: 45

Type: **not specified**

Discussion

Contribution ID: 46

Type: **not specified**

MEBT Design for PXIE

Presenter: SHEMYAKIN, Alexander (Fermilab)

Contribution ID: 47

Type: **not specified**

EM Design of the 162.5 MHz HWR

Presenter: MUSTAPHA, Brahim (Argonne National Laboratory)

Contribution ID: 48

Type: **not specified**

Recent Experience of Mechanical Design of a HWR

Presenter: CONWAY, Zachary (Argonne National Laboratory)

Contribution ID: 49

Type: **not specified**

Proposed Fabrication Technology

Presenter: OSTROUMOV, Peter (Argonne National Laboratory)

Contribution ID: 50

Type: **not specified**

Cavity Sub-Systems: RF Coupler and Piezoelectric Tuner, Cavity Frequency Tuning During Production

Presenter: KELLY, Michael (Argonne National Laboratory)

Contribution ID: 51

Type: **not specified**

PXIE Front End Layout and Associated Facilities

Presenter: STANEK, Richard (Fermilab)

Contribution ID: 52

Type: **not specified**

PXIE RF Systems

Presenter: Mr PASQUINELLI, Ralph (Fermilab)

Contribution ID: 53

Type: **not specified**

PXIE Cryogenics

Presenter: KLEBANER, Arkadiy (Fermilab)

Contribution ID: 54

Type: **not specified**

PXIE Instrumentation

Presenter: SCARPINE, Vic (Fermilab)

Contribution ID: 55

Type: **not specified**

PXIE Cold BPMs

Presenter: Mr WENDT, Manfred (Fermilab)

Contribution ID: 56

Type: **not specified**

Microphonics Suppression in CW Linac

Presenter: SCHAPPERT, Warren (Fermilab)

Contribution ID: 57

Type: **not specified**

Discussion

Contribution ID: 58

Type: **not specified**

SSR1 Cavity EM and Mechanical Design

Presenter: RISTORI, Leonardo (Fermilab)

Contribution ID: 59

Type: **not specified**

SSR1 Cryomodule Design Issues

Presenter: NICOL, Tom (Fermilab)

Contribution ID: **60**

Type: **not specified**

650-MHz Report from JLab

Presenter: BURRILL, Andrew (Jefferson Lab)

Contribution ID: **61**

Type: **not specified**

650-MHz report from Fermilab

Presenter: CHAMPION, Mark (Fermilab)

Contribution ID: **62**

Type: **not specified**

650MHz & 325MHz Sources R&D at SLAC

Presenter: CIPRIAN, Rosa (SLAC)

Contribution ID: **63**

Type: **not specified**

Cavity Processing (schedule limitations and what needs to be done)

Presenter: ROWE, Allan (Fermilab)

Contribution ID: **64**

Type: **not specified**

Report Outs

Thursday, 12 April 2012 09:15 (45 minutes)

Session Classification: Plenary Session - Working Group Reports

Contribution ID: 65

Type: **not specified**

Reports Outs [cont'd]

Thursday, 12 April 2012 10:30 (1h 30m)

Session Classification: Plenary Session - Working Group Reports

Contribution ID: **66**

Type: **not specified**

Fermilab Strategic Plan

Contribution ID: 67

Type: **not specified**

Muon Collider Task Force

Presenter: Dr GOLLWITZER, Keith (Fermilab)

Contribution ID: **68**

Type: **not specified**

Possible Scenarios and Staging

Contribution ID: **69**

Type: **not specified**

Mu2e Task Force

Presenter: Dr LEBEDEV, Valeri (Fermilab)

Contribution ID: 70

Type: **not specified**

Welcome, Overview of LBNL Accelerator Programs

Contribution ID: 71

Type: **not specified**

Project X News, Strategy Meeting Goals

Presenter: HOLMES, Stephen (Fermilab)

Contribution ID: 72

Type: **not specified**

PXIE Overview: Goals, Concepts, and Planning

Presenter: NAGAITSEV, Sergei (FNAL)

Contribution ID: 73

Type: **not specified**

Physics Research Opportunities at Project X

Presenter: Dr TSCHIRHART, Robert (Fermilab)

Contribution ID: 74

Type: **not specified**

Welcome, Overview of LBNL Accelerator Programs

Tuesday, 10 April 2012 09:00 (30 minutes)

Presenter: Dr GOURLAY, Steve (LBNL)

Session Classification: Plenary Session

Contribution ID: 75

Type: **not specified**

Project X News, Strategy, Meeting Goals

Tuesday, 10 April 2012 09:30 (30 minutes)

Presenter: HOLMES, Stephen (Fermilab)

Session Classification: Plenary Session

Contribution ID: 76

Type: **not specified**

PXIE Overview: Goals, Concepts and Planning

Tuesday, 10 April 2012 10:00 (30 minutes)

Presenter: NAGAITSEV, Sergei (FNAL)

Session Classification: Plenary Session

Contribution ID: 77

Type: **not specified**

Physics Research Opportunities at Project X

Tuesday, 10 April 2012 11:00 (30 minutes)

Presenter: Dr TSCHIRHART, Robert (Fermilab)

Session Classification: Plenary Session

Contribution ID: 78

Type: **not specified**

Overview of SLAC Accelerator Programs

Tuesday, 10 April 2012 11:30 (30 minutes)

Presenter: Dr HOLTkamp, Norbert (SLAC National Laboratory)

Session Classification: Plenary Session

Contribution ID: 79

Type: **not specified**

PXIE Optics

Tuesday, 10 April 2012 13:00 (30 minutes)

Presenter: Dr SOLYAK, Nikolay (FNAL)

Session Classification: WG1 PXIE/Front End – Session 1

Contribution ID: **80**

Type: **not specified**

PXIE LEBT Concept

Tuesday, 10 April 2012 13:30 (20 minutes)

Presenter: Dr JI, Qing (Lawrence Berkeley Laboratory)

Session Classification: WG1 PXIE/Front End – Session 1

Contribution ID: **81**

Type: **not specified**

LEBT Dynamic Studies using WARP-3D

Tuesday, 10 April 2012 13:50 (20 minutes)

Presenter: GROTE, D. (Lawrence Berkeley National Laboratory)

Session Classification: WG1 PXIE/Front End – Session 1

Contribution ID: **82**

Type: **not specified**

PXIE RFQ Physics Design

Tuesday, 10 April 2012 14:10 (30 minutes)

Presenter: STAPLES, J. (Lawrence Berkeley National Lab)

Session Classification: WG1 PXIE/Front End – Session 1

Contribution ID: **83**

Type: **not specified**

PXIE RFQ Engineering Design

Tuesday, 10 April 2012 14:40 (15 minutes)

Presenter: VIROSTEK, Steve (Lawrence Berkeley National Lab)

Session Classification: WG1 PXIE/Front End – Session 1

Contribution ID: **84**

Type: **not specified**

PXIE MEBT Concept

Tuesday, 10 April 2012 15:30 (30 minutes)

Presenter: SHEMYAKIN, Alexander (Fermilab)

Session Classification: WG1 PXIE/Front End – Session 2

Contribution ID: 85

Type: **not specified**

Kicker, Driver (50 ohm)

Tuesday, 10 April 2012 16:00 (30 minutes)

Presenter: Dr LEBEDEV, Valeri (Fermilab)

Session Classification: WG1 PXIE/Front End – Session 2

Contribution ID: **86**

Type: **not specified**

Kicker, Driver (200 ohm)

Tuesday, 10 April 2012 16:30 (30 minutes)

Presenter: SAEWERT, Greg (FNAL)

Session Classification: WG1 PXIE/Front End – Session 2

Contribution ID: 87

Type: **not specified**

200 Ohm Driver R&D at SLAC

Tuesday, 10 April 2012 17:00 (30 minutes)

Presenter: TANG, T. (SLAC)

Session Classification: WG1 PXIE/Front End – Session 2

Contribution ID: **88**

Type: **not specified**

Absorber

Wednesday, 11 April 2012 08:30 (20 minutes)

Presenter: Mr BAFFES, Curtis (Fermilab)

Session Classification: WG1 PXIE/Front End – Session 3

Contribution ID: **89**

Type: **not specified**

MEBT Buncher Cavities

Wednesday, 11 April 2012 08:50 (20 minutes)

Presenter: Dr ROMANOV, Gennady (Fermilab)

Session Classification: WG1 PXIE/Front End – Session 3

Contribution ID: **90**

Type: **not specified**

RF Power for PXIE

Wednesday, 11 April 2012 09:10 (20 minutes)

Presenter: Mr PASQUINELLI, Ralph (Fermilab)

Session Classification: WG1 PXIE/Front End – Session 3

Contribution ID: **91**

Type: **not specified**

LLRF for PXIE

Wednesday, 11 April 2012 09:30 (20 minutes)

Presenter: CHASE, Brian (FNAL)

Session Classification: WG1 PXIE/Front End – Session 3

Contribution ID: **92**

Type: **not specified**

Discussion

Wednesday, 11 April 2012 09:50 (10 minutes)

Session Classification: WG1 PXIE/Front End – Session 3

Contribution ID: 93

Type: **not specified**

Vacuum

Wednesday, 11 April 2012 10:30 (30 minutes)

Presenter: CHEN, A. (Fermi National Accelerator Lab)

Session Classification: WG1 PXIE/Front End – Session 4

Contribution ID: **94**

Type: **not specified**

PXIE Diagnostics

Wednesday, 11 April 2012 11:00 (30 minutes)

Presenter: Mr WENDT, Manfred (Fermilab)

Session Classification: WG1 PXIE/Front End – Session 4

Contribution ID: 95

Type: **not specified**

HWR CM Development

Wednesday, 11 April 2012 11:30 (30 minutes)

Presenter: Dr OSTROUMOV, Peter (Argonne National Laboratory)

Session Classification: WG1 PXIE/Front End – Session 4

Contribution ID: **96**

Type: **not specified**

Microphonics Compensation in PX Cavities

Wednesday, 11 April 2012 13:00 (30 minutes)

Presenter: Dr PISCHALNIKOV, Yuriy (Fermilab)

Session Classification: WG3 SRF Development – Session 5

Contribution ID: 97

Type: **not specified**

Status of SSR1 Cavity

Wednesday, 11 April 2012 13:30 (20 minutes)

Presenter: RISTORI, Leonardo (Fermilab)

Session Classification: WG3 SRF Development – Session 5

Contribution ID: **98**

Type: **not specified**

SSR1 Cryomodule Development

Wednesday, 11 April 2012 13:50 (20 minutes)

Presenter: NICOL, Tom (Fermilab)

Session Classification: WG3 SRF Development – Session 5

Contribution ID: 99

Type: **not specified**

Status of Beta=0.61, 650 MHz Cavity, Cryomodule Development

Wednesday, 11 April 2012 14:10 (30 minutes)

Presenter: Dr BURRILL, Andrew (Jefferson Lab)

Session Classification: WG3 SRF Development – Session 5

Contribution ID: **100**

Type: **not specified**

Status of Beta=0.9, 650 MHz Cavities and Cryomodule

Wednesday, 11 April 2012 14:40 (30 minutes)

Presenter: PETERSON, Tom (Fermilab)

Session Classification: WG3 SRF Development – Session 5

Contribution ID: **101**

Type: **not specified**

Cavity Processing Issues for Project X

Wednesday, 11 April 2012 15:40 (30 minutes)

Presenter: ROWE, Allan (Fermilab)

Session Classification: WG3 SRF Development – Session 6

Contribution ID: **102**

Type: **not specified**

EM Design and Measurements of the Cavities of PX Front End

Wednesday, 11 April 2012 16:10 (30 minutes)

Presenter: KHABIBOULLINE, Timergali (FNAL)

Session Classification: WG3 SRF Development – Session 6

Contribution ID: **103**

Type: **not specified**

Couplers for Project X CW Linac and Test Stands

Wednesday, 11 April 2012 16:40 (30 minutes)

Presenter: Dr KAZAKOV, Sergey (FNAL)

Session Classification: WG3 SRF Development – Session 6

Contribution ID: **104**

Type: **not specified**

Cavity Test Stands for PX

Wednesday, 11 April 2012 17:10 (20 minutes)

Presenter: HOCKER, Andy (FNAL)

Session Classification: WG3 SRF Development – Session 6

Contribution ID: **105**

Type: **not specified**

Neutron EDM Measurements

Tuesday, 10 April 2012 13:00 (1 hour)

45 minute talk + 15 min. questions/discussions

Presenter: BUDKER, Dima (Lawrence Berkeley Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 1

Contribution ID: **106**

Type: **not specified**

Neutron-EDM Summary of the "Project X Forum on Spallation Sources for Particle Physics"

Tuesday, 10 April 2012 14:00 (30 minutes)

20 minute talk + 10 min. questions/discussion

Presenter: Dr NOLEN, Jerry (Argonne National Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 1

Contribution ID: **107**

Type: **not specified**

Fountain Technology Opportunities for Atomic-EDM Measurements

Tuesday, 10 April 2012 15:30 (1 hour)

45 minute talk + 15 min. questions/discussion

Presenter: GOULD, Harvey (Lawrence Berkeley Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 2

Contribution ID: **108**

Type: **not specified**

Atomic-EDM Summary of the "Project X Forum on Spallation Sources for Particle Physics"

Tuesday, 10 April 2012 16:30 (30 minutes)

20 minute talk + 10 min. questions/discussion

Presenter: Dr NOLEN, Jerry (Argonne National Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 2

Contribution ID: **109**

Type: **not specified**

Targetry Requirements and Irradiation Study Requirements of the Fermilab Research Program

Wednesday, 11 April 2012 08:30 (50 minutes)

40 minute talk + 10 min. questions/discussions

Presenter: Mr HURH, Patrick (FNAL)

Session Classification: WG2 Experimental Opportunities – Session 3

Contribution ID: 110

Type: **not specified**

Discussion of the "Accelerator and Target Technology for Accelerator Driven Transmutation and Energy Production" White Paper

Wednesday, 11 April 2012 10:30 (1 hour)

45 minute talk + 15 min. questions/discussion

Presenter: PITCHER, Eric (Los Alamos National Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 4

Contribution ID: **111**

Type: **not specified**

Update on the International Scene

Wednesday, 11 April 2012 11:30 (30 minutes)

20 minute talk + 10 min. questions/discussion

Presenter: Dr GOHAR, Yousry (Argonne National Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 4

Contribution ID: 112

Type: **not specified**

The Brookhaven Linac Isotope Producer (BLIP) Facility: Performance and Roadmap Considerations

Wednesday, 11 April 2012 13:00 (1 hour)

45 minute talk + 15 min. questions/discussion

Presenter: SIMOS, Nick (Brookhaven National Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 5

Contribution ID: **113**

Type: **not specified**

The Materials Test Stand Initiative at LANL

Wednesday, 11 April 2012 14:00 (1 hour)

45 minute talk + 15 min. questions/discussion

Presenter: PITCHER, Eric (Los Alamos National Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 5

Contribution ID: 114

Type: **not specified**

Project X Facility Concept for Irradiation and Energy Applications

Wednesday, 11 April 2012 15:30 (1 hour)

45 minute talk + 15 min. questions/discussion

Presenter: WOOTAN, david (Pacific Northwest National Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 6

Contribution ID: 115

Type: **not specified**

Discussion of Common Issues. Is there a Case for a Common Strategy?

Wednesday, 11 April 2012 16:30 (1 hour)

15 minute talk + 45 min. questions/discussion

Session Classification: WG2 Experimental Opportunities – Session 6

Contribution ID: **116**

Type: **not specified**

ADS Target Development and Design

Wednesday, 11 April 2012 09:20 (40 minutes)

30 minute talk + 10 min. questions/discussion

Presenter: Dr GOHAR, Yousry (Argonne National Laboratory)

Session Classification: WG2 Experimental Opportunities – Session 3

Contribution ID: **117**

Type: **not specified**

Experience with APEX CW RF System

Thursday, 12 April 2012 08:30 (30 minutes)

Presenter: STAPLES, John (Lawrence Berkeley National Laboratory)

Session Classification: WG3 SRF Development – Session 7