

# **2011 Fall Project X Collaboration Meeting**



## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

# Fermilab Strategic Plan

Contribution ID: 1

Type: **not specified**

## **Welcome - Fermilab Strategic Plan**

*Tuesday, 25 October 2011 08:30 (30 minutes)*

**Presenter:** Dr ODDONE, Pier (Fermilab)

**Session Classification:** Plenary Session

Contribution ID: 2

Type: **not specified**

## **Project X News, Strategy, Meeting Goals**

*Tuesday, 25 October 2011 09:00 (30 minutes)*

**Presenter:** HOLMES, Stephen (Fermilab)

**Session Classification:** Plenary Session

Contribution ID: 3

Type: **not specified**

## **Project X Reference Design and R&D Plan**

*Tuesday, 25 October 2011 09:30 (30 minutes)*

**Presenter:** NAGAITSEV, Sergei (FNAL)

**Session Classification:** Plenary Session

Contribution ID: 4

Type: **not specified**

## **PXIE [ Objectives, Plans, Design Status]**

Contribution ID: 5

Type: **not specified**

## **ESS Activities**

*Tuesday, 25 October 2011 10:30 (30 minutes)*

**Presenter:** Dr MCGINNIS, David (ESS)

**Session Classification:** Plenary Session

Contribution ID: 6

Type: **not specified**

## **SPL Activities**

*Tuesday, 25 October 2011 11:00 (30 minutes)*

**Presenter:** Dr CIAPALA, Edmond (CERN)

**Session Classification:** Plenary Session



Contribution ID: 7

Type: **not specified**

## **Muon Collider Task Force**

**Presenter:** Dr GOLLWITZER, Keith (Fermilab)

Contribution ID: 8

Type: **not specified**

## **Mu2e Task Force**

**Presenter:** Dr LEBEDEV, Valeri (Fermilab)

Contribution ID: 9

Type: **not specified**

## Possible Scenarios and Staging

Contribution ID: **10**

Type: **not specified**

## **Report Outs**

*Thursday, 27 October 2011 08:30 (1h 30m)*

**Session Classification:** Plenary Session - Working Group Reports

Contribution ID: **11**

Type: **not specified**

## **Reports Outs [cont'd]**

*Thursday, 27 October 2011 10:30 (1h 30m)*

**Session Classification:** Plenary Session - Working Group Reports

Contribution ID: 12

Type: **not specified**

## India Activities

*Tuesday, 25 October 2011 11:30 (30 minutes)*

**Presenter:** SINGH, Pitamber (Bhabha Atomic Research Centre)

**Session Classification:** Plenary Session

Contribution ID: 13

Type: **not specified**

## DOE Intensity Frontier Workshop

*Tuesday, 25 October 2011 13:00 (30 minutes)*

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

**Session Classification:** Plenary Session

Contribution ID: 14

Type: **not specified**

## **Muons at PX Task Force**

*Tuesday, 25 October 2011 13:30 (30 minutes)*

**Presenter:** Dr LEBEDEV, Valeri (Fermilab)

**Session Classification:** Plenary Session



Contribution ID: 15

Type: **not specified**

## **Muon Collider Task Force**

*Tuesday, 25 October 2011 14:00 (30 minutes)*

**Presenter:** Dr GOLLWITZER, Keith (Fermilab)

**Session Classification:** Plenary Session

Contribution ID: 16

Type: **not specified**

## **PXIE Optics and beam physics**

*Tuesday, 25 October 2011 15:00 (20 minutes)*

**Presenter:** Dr LEBEDEV, Valeri (Fermilab)

**Session Classification:** WGs - Session 1 / WG1 (CW Linac and PXIE)

Contribution ID: 17

Type: **not specified**

## **Overview of PXIE Front-End R&D at LBNL**

*Tuesday, 25 October 2011 15:20 (15 minutes)*

**Presenter:** Dr LI, Derun (LBNL)

**Session Classification:** WGs - Session 1 / WG1 (CW Linac and PXIE)

Contribution ID: **18**

Type: **not specified**

## **LEBT and LEBT Chopper Design Requirements for PXIE**

*Tuesday, 25 October 2011 15:35 (20 minutes)*

**Presenter:** PROST, Lionel (Fermilab)

**Session Classification:** WGs - Session 1 / WG1 (CW Linac and PXIE)

Contribution ID: 19

Type: **not specified**

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

*Tuesday, 25 October 2011 15:55 (20 minutes)*

**Presenter:** JI, Qing (Lawrence Berkeley Laboratory)

**Session Classification:** WGs - Session 1 / WG1 (CW Linac and PXIE)

Contribution ID: 20

Type: **not specified**

## **LEBT and RFQ Physics Design**

*Tuesday, 25 October 2011 16:15 (30 minutes)*

**Presenter:** STAPLES, John (Lawrence Berkeley Laboratory)

**Session Classification:** WGs - Session 1 / WG1 (CW Linac and PXIE)

Contribution ID: 21

Type: **not specified**

## **RF Design Studies of PXIE RFQ and buncher activities**

*Tuesday, 25 October 2011 16:45 (20 minutes)*

**Presenter:** Dr ROMANOV, Gennady (Fermilab)

**Session Classification:** WGs - Session 1 / WG1 (CW Linac and PXIE)

Contribution ID: 22

Type: **not specified**

## **RFQ Engineering Design and Fabrication Plan**

*Tuesday, 25 October 2011 17:05 (30 minutes)*

**Presenter:** VIROSTEK, Steve (Lawrence Berkeley National Lab)

**Session Classification:** WGs - Session 1 / WG1 (CW Linac and PXIE)



Contribution ID: 23

Type: **not specified**

## Discussion

Contribution ID: 24

Type: **not specified**

## **Pulsed Linac Overview and plans**

*Tuesday, 25 October 2011 15:00 (15 minutes)*

**Presenter:** Dr SOLYAK, Nikolay (FNAL)

**Session Classification:** WGs Session 1 / WG2 (Pulsed Linac)

Contribution ID: 25

Type: **not specified**

## HLRF Overview and Plans

*Tuesday, 25 October 2011 15:15 (20 minutes)*

**Presenter:** REID, John (Fermilab)

**Session Classification:** WGs Session 1 / WG2 (Pulsed Linac)

Contribution ID: 26

Type: **not specified**

## **Status and Plans for Pulsed Linac Transfer Lines**

*Tuesday, 25 October 2011 15:35 (20 minutes)*

**Presenter:** JOHNSON, David (Fermilab)

**Session Classification:** WGs Session 1 / WG2 (Pulsed Linac)

Contribution ID: 27

Type: **not specified**

## **LLRF Requirements, Status and Plans**

*Tuesday, 25 October 2011 15:55 (20 minutes)*

**Presenter:** Mr CHASE, Brian Chase (FNAL)

**Session Classification:** WGs Session 1 / WG2 (Pulsed Linac)

Contribution ID: 28

Type: **not specified**

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

*Tuesday, 25 October 2011 16:15 (15 minutes)*

**Presenter:** Dr CANCELO, gustavo (fermilab)

**Session Classification:** WGs Session 1 / WG2 (Pulsed Linac)

Contribution ID: 29

Type: **not specified**

## **SCREAM Results for Longitudinal Dynamics in Pulsed Linac**

*Tuesday, 25 October 2011 16:30 (10 minutes)*

**Presenter:** EIDELMAN, Yury (Fermilab)

**Session Classification:** WGs Session 1 / WG2 (Pulsed Linac)

Contribution ID: 30

Type: **not specified**

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

*Tuesday, 25 October 2011 16:40 (20 minutes)*

**Presenter:** PISCHALNIKOV, Yuriy

**Session Classification:** WGs Session 1 / WG2 (Pulsed Linac)



Contribution ID: **31**

Type: **not specified**

## **Discussion**

*Tuesday, 25 October 2011 17:00 (30 minutes)*

**Session Classification:** WGs Session 1 / WG2 (Pulsed Linac)

Contribution ID: 32

Type: **not specified**

## **MEBT Design for PXIE**

*Wednesday, 26 October 2011 08:30 (20 minutes)*

**Presenter:** SHEMYAKIN, Alexander (Fermilab)

**Session Classification:** WGs - Session 2 / WG1 (CW Linac and PXIE)

Contribution ID: **33**

Type: **not specified**

## **EM Design of the 162.5 MHz HWR**

*Wednesday, 26 October 2011 08:50 (20 minutes)*

**Presenter:** MUSTAPHA, Brahim (Argonne National Laboratory)

**Session Classification:** WGs - Session 2 / WG1 (CW Linac and PXIE)

Contribution ID: **34**

Type: **not specified**

## **Recent Experience of Mechanical Design of a HWR**

*Wednesday, 26 October 2011 09:10 (20 minutes)*

**Presenter:** CONWAY, Zachary (Argonne National Laboratory)

**Session Classification:** WGs - Session 2 / WG1 (CW Linac and PXIE)

Contribution ID: 35

Type: **not specified**

## Proposed Fabrication Technology

*Wednesday, 26 October 2011 09:30 (20 minutes)*

**Presenter:** OSTROUMOV, Peter (Argonne National Laboratory)

**Session Classification:** WGs - Session 2 / WG1 (CW Linac and PXIE)

Contribution ID: 36

Type: **not specified**

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

*Wednesday, 26 October 2011 09:50 (20 minutes)*

**Presenter:** KELLY, Michael (Argonne National Laboratory)

**Session Classification:** WGs - Session 2 / WG1 (CW Linac and PXIE)

Contribution ID: 37

Type: **not specified**

## Slow Tuner

*Wednesday, 26 October 2011 10:30 (20 minutes)*

**Presenter:** ZINKANN, Gary (Argonne National Laboratory)

**Session Classification:** WGs - Session 3 / WG 1 (CW Linac and PXIE)

Contribution ID: **38**

Type: **not specified**

## **Cavity EP, Clean Rom Procedures, Assembly of Cavity String**

*Wednesday, 26 October 2011 10:50 (20 minutes)*

**Presenter:** KELLY, Michael (Argonne National Laboratory)

**Session Classification:** WGs - Session 3 / WG 1 (CW Linac and PXIE)



Contribution ID: 39

Type: **not specified**

## Concepts for the Cryomodule Design

*Wednesday, 26 October 2011 11:10 (20 minutes)*

**Presenter:** CONWAY, Zachary (Argonne National Laboratory)

**Session Classification:** WGs - Session 3 / WG 1 (CW Linac and PXIE)

Contribution ID: 40

Type: **not specified**

## **Operational Experience with a SC Linac**

*Wednesday, 26 October 2011 11:30 (20 minutes)*

**Presenter:** ZINKANN, Gary (Argonne National Laboratory)

**Session Classification:** WGs - Session 3 / WG 1 (CW Linac and PXIE)

Contribution ID: 41

Type: **not specified**

## Discussion

*Wednesday, 26 October 2011 11:50 (10 minutes)*

**Session Classification:** WGs - Session 3 / WG 1 (CW Linac and PXIE)

Contribution ID: 42

Type: **not specified**

## **SSR1 Cavity EM and Mechanical Design**

*Wednesday, 26 October 2011 13:00 (20 minutes)*

**Presenter:** RISTORI, Leonardo (Fermilab)

**Session Classification:** WGs - Session 4 / WG1 (CW Linac and PXIE)

Contribution ID: 43

Type: **not specified**

## **SSR1 Cryomodule Design Issues**

*Wednesday, 26 October 2011 13:20 (20 minutes)*

**Presenter:** NICOL, Tom (Fermilab)

**Session Classification:** WGs - Session 4 / WG1 (CW Linac and PXIE)

Contribution ID: 44

Type: **not specified**

## **650-MHz Report from JLab**

*Wednesday, 26 October 2011 13:40 (20 minutes)*

**Presenter:** BURRILL, Andrew (Jefferson Lab)

**Session Classification:** WGs - Session 4 / WG1 (CW Linac and PXIE)

Contribution ID: 45

Type: **not specified**

## **650-MHz report from Fermilab**

*Wednesday, 26 October 2011 14:00 (20 minutes)*

**Presenter:** CHAMPION, Mark (Fermilab)

**Session Classification:** WGs - Session 4 / WG1 (CW Linac and PXIE)

Contribution ID: 46

Type: **not specified**

## **650MHz & 325MHz Sources R&D at SLAC**

*Wednesday, 26 October 2011 14:20 (20 minutes)*

**Presenter:** CIPRIAN, Rosa (SLAC)

**Session Classification:** WGs - Session 4 / WG1 (CW Linac and PXIE)



Contribution ID: 47

Type: **not specified**

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

*Wednesday, 26 October 2011 14:40 (20 minutes)*

**Presenter:** ROWE, Allan (Fermilab)

**Session Classification:** WGs - Session 4 / WG1 (CW Linac and PXIE)

Contribution ID: 48

Type: **not specified**

## **PXIE RF Systems**

*Wednesday, 26 October 2011 15:50 (20 minutes)*

**Presenter:** Mr PASQUINELLI, Ralph (Fermilab)

**Session Classification:** WGs - Session 5 / WG1 (CW Linac and PXIE)

Contribution ID: 49

Type: **not specified**

## **PXIE Cryogenics**

*Wednesday, 26 October 2011 16:10 (20 minutes)*

**Presenter:** KLEBANER, Arkadiy (Fermilab)

**Session Classification:** WGs - Session 5 / WG1 (CW Linac and PXIE)

Contribution ID: 50

Type: **not specified**

## **PXIE Cold BPMs**

*Wednesday, 26 October 2011 16:50 (20 minutes)*

**Presenter:** Mr WENDT, Manfred (Fermilab)

**Session Classification:** WGs - Session 5 / WG1 (CW Linac and PXIE)

Contribution ID: 51

Type: **not specified**

## **PXIE Front End Layout and Associated Facilities**

*Wednesday, 26 October 2011 15:30 (20 minutes)*

**Presenter:** STANEK, Richard (Fermilab)

**Session Classification:** WGs - Session 5 / WG1 (CW Linac and PXIE)

Contribution ID: 52

Type: **not specified**

## **Microphonics Suppression in CW Linac**

*Wednesday, 26 October 2011 17:10 (20 minutes)*

**Presenter:** SCHAPPERT, Warren (Fermilab)

**Session Classification:** WGs - Session 5 / WG1 (CW Linac and PXIE)

Contribution ID: 53

Type: **not specified**

## Discussion

*Wednesday, 26 October 2011 17:30 (30 minutes)*

**Session Classification:** WGs - Session 5 / WG1 (CW Linac and PXIE)

Contribution ID: 54

Type: **not specified**

## General Comments

*Wednesday, 26 October 2011 08:30 (10 minutes)*

**Presenter:** Dr KOURBANIS, Ioanis (Fermilab)

**Session Classification:** WGs Session 2 / WG3 (MI/Recycler)



Contribution ID: 55

Type: **not specified**

## **MI-rf Status and Plans**

*Wednesday, 26 October 2011 08:40 (20 minutes)*

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

**Session Classification:** WGs Session 2 / WG3 (MI/Recycler)

Contribution ID: 56

Type: **not specified**

## **MI Coating Studies**

*Wednesday, 26 October 2011 09:00 (20 minutes)*

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

**Session Classification:** WGs Session 2 / WG3 (MI/Recycler)

Contribution ID: 57

Type: **not specified**

## **Electron Cloud Studies/Measurements**

*Wednesday, 26 October 2011 09:20 (20 minutes)*

**Presenter:** Dr ZWASKA, Bob (Fermilab)

**Session Classification:** WGs Session 2 / WG3 (MI/Recycler)

Contribution ID: 58

Type: **not specified**

## **MI Space Charge Simulations**

*Wednesday, 26 October 2011 09:40 (20 minutes)*

**Presenter:** Dr STERN, Eric (FNAL)

**Session Classification:** WGs Session 2 / WG3 (MI/Recycler)

Contribution ID: 59

Type: **not specified**

## **MI Single Bunch Tune Measurements**

*Wednesday, 26 October 2011 10:30 (20 minutes)*

**Presenter:** Dr SCOTT, Duncan (Fermilab)

**Session Classification:** WGs Session 3 / WG3 (MI/Recycler)

Contribution ID: **60**

Type: **not specified**

## **Status and Plans for H-Injection**

*Wednesday, 26 October 2011 11:10 (30 minutes)*

**Presenter:** JOHNSON, David (Fermilab)

**Session Classification:** WGs Session 3 / WG3 (MI/Recycler)

Contribution ID: **61**

Type: **not specified**

## **New Foil Materials**

Contribution ID: **62**

Type: **not specified**

## **Discussion**

*Wednesday, 26 October 2011 11:40 (20 minutes)*

**Session Classification:** WGs Session 3 / WG3 (MI/Recycler)



Contribution ID: **63**

Type: **not specified**

## **Review of Muon Production Yields**

*Wednesday, 26 October 2011 13:00 (30 minutes)*

**Presenter:** Dr STRIGANOV, Sergei (Fermilab)

**Session Classification:** WGs Session 4 / WG4 (Experimental Requirements)

Contribution ID: **64**

Type: **not specified**

## **Review of JPARC and PSI Muon Beams**

*Wednesday, 26 October 2011 13:30 (30 minutes)*

**Presenter:** Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** WGs Session 4 / WG4 (Experimental Requirements)

Contribution ID: 65

Type: **not specified**

## **Detailed Discussion of Project X Muon Beam Concepts**

*Wednesday, 26 October 2011 14:00 (40 minutes)*

**Presenter:** Dr LEBEDEV, Valeri (Fermilab)

**Session Classification:** WGs Session 4 / WG4 (Experimental Requirements)

Contribution ID: 66

Type: **not specified**

## **Discussion of Radiation Shielding - Options**

*Wednesday, 26 October 2011 14:40 (20 minutes)*

**Presenter:** Dr PRONSKIKH, Vitaly (Fermilab)

**Session Classification:** WGs Session 4 / WG4 (Experimental Requirements)

Contribution ID: 67

Type: **not specified**

## **Continued Discussion of Project X Muon Beam Concepts**

*Wednesday, 26 October 2011 15:30 (1 hour)*

**Presenter:** Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** WGs Session 5 / WG4 (Experimental Requirements)

Contribution ID: **68**

Type: **not specified**

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

*Tuesday, 25 October 2011 15:00 (2 hours)*

**Presenter:** Dr TSCHIRHART, Robert (Fermilab)

**Session Classification:** WGs Session 1 / WG4 (Experimental Requirements)

Contribution ID: **69**

Type: **not specified**

## **Status and Plans for the IPM and Electron Beam Profiler**

*Wednesday, 26 October 2011 10:50 (20 minutes)*

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

**Session Classification:** WGs Session 3 / WG3 (MI/Recycler)

Contribution ID: 70

Type: **not specified**

## **PXIE Instrumentation**

*Wednesday, 26 October 2011 16:30 (20 minutes)*

**Presenter:** SCARPINE, Vic (Fermilab)

**Session Classification:** WGs - Session 5 / WG1 (CW Linac and PXIE)



Contribution ID: 71

Type: **not specified**

## **Review of the ADS White Paper**

*Wednesday, 26 October 2011 10:30 (45 minutes)*

**Presenter:** Dr HENDERSON, Stuart (Fermilab)

**Session Classification:** WGs Session 3 / WG4 (Experimental Requirements)

Contribution ID: 72

Type: **not specified**

## Discussion

*Wednesday, 26 October 2011 11:15 (45 minutes)*

**Session Classification:** WGs Session 3 / WG4 (Experimental Requirements)