

**AHIPA**

# **Report of Contributions**

Contribution ID: 0

Type: **not specified**

# Fuel Cycle Options for Energy and Transmutation Missions

*Tuesday, 20 October 2009 08:30 (1 hour)*

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: 1

Type: **not specified**

## **Subcritical/Accelerator Interface and Safety Issues**

*Tuesday, 20 October 2009 09:30 (1 hour)*

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: 2

Type: **not specified**

## Target Development

*Tuesday, 20 October 2009 08:30 (2 hours)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)

Contribution ID: 3

Type: **not specified**

## Long-Baseline Neutrino Experiment concepts driven with 4-8 GeV super-beams

*Tuesday, 20 October 2009 11:00 (30 minutes)*

Joint Session with WG-2 (Room: Hornets Nest WH8X)

**Presenter:** , Mary Bishai

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)

Contribution ID: 4

Type: **not specified**

## **Joint session on Low-Z and High-Z high-power target issues**

*Tuesday, 20 October 2009 11:30 (1 hour)*

Joint Session with WG-2 (Room: Hornets Nest WH8X)

**Presenter:** , Harold Kirk

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)

Contribution ID: 5

Type: **not specified**

## **Nuclear Science/ISOL**

*Wednesday, 21 October 2009 11:00 (1h 30m)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)

Contribution ID: 6

Type: **not specified**

## **Pion and muon yield studies for proton drive beams of 2-8 GeV kinetic energy for stopped muon and low-energy muon decay experiments.**

*Tuesday, 20 October 2009 08:30 (30 minutes)*

**Presenter:** , Sergei Striganov

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)



Contribution ID: 7

Type: **not specified**

## Status of JPARC

*Tuesday, 20 October 2009 09:00 (30 minutes)*

Joint with WG5

**Presenter:** , Hitoshi Kobayashi

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)

Contribution ID: 8

Type: **not specified**

## **Beam requirements for next generation muon experiments**

*Tuesday, 20 October 2009 09:30 (1 hour)*

**Presenter:** , Yoshi Kuno

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)

Contribution ID: 9

Type: **not specified**

## Linac+Ring Options

*Tuesday, 20 October 2009 08:30 (30 minutes)*

**Presenter:** , Roland Garoby

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: **10**

Type: **not specified**

## **C.W. Linac Options**

*Tuesday, 20 October 2009 09:00 (30 minutes)*

**Presenter:** , Milorad Popovic

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 11

Type: **not specified**

## Pion production for neutrino factories and muon colliders

*Tuesday, 20 October 2009 09:30 (30 minutes)*

**Presenter:** , Nikolai Mokhov

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 12

Type: **not specified**

## ADS efforts in India

*Tuesday, 20 October 2009 08:30 (35 minutes)*

**Presenter:** , Srikumar Banerjee

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 13

Type: **not specified**

## Linac Accelerator Design in India for ADS

*Tuesday, 20 October 2009 09:05 (35 minutes)*

**Presenter:** , Vinod Sahni

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 14

Type: **not specified**

## Discussion

*Tuesday, 20 October 2009 09:40 (50 minutes)*

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)



Contribution ID: 15

Type: **not specified**

## Long-Baseline neutrino oscillation experiment concepts with 8 GeV drive beam

*Tuesday, 20 October 2009 11:00 (45 minutes)*

Joint Session with WG-1

**Presenter:** , Mary Bishai

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 16

Type: **not specified**

## Target Issues

*Tuesday, 20 October 2009 11:45 (45 minutes)*

Joint Session with WG-1

**Presenter:** , Harold Kirk

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 17

Type: **not specified**

## ADS developments in China

*Tuesday, 20 October 2009 11:00 (35 minutes)*

**Presenter:** , Shinian Fu

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 18

Type: **not specified**

## **How can Project-X be modified to deliver 10MW?**

*Tuesday, 20 October 2009 11:35 (35 minutes)*

**Presenter:** , Bob Kephart

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: **19**

Type: **not specified**

## Discussion

*Tuesday, 20 October 2009 12:10 (20 minutes)*

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 20

Type: **not specified**

## **Cyclotron Based High Intensity Proton Accelerators**

*Tuesday, 20 October 2009 16:50 (30 minutes)*

**Presenter:** , Mike Seidel

**Session Classification:** Plenary and Contributed Talks (Room: Ramsey Auditorium)

Contribution ID: **21**

Type: **not specified**

## **FFAG**

*Tuesday, 20 October 2009 17:20 (30 minutes)*

**Presenter:** , Yoshiharu Mori

**Session Classification:** Plenary and Contributed Talks (Room: Ramsey Auditorium)

Contribution ID: 22

Type: **not specified**

## **WG1 Summary**

*Wednesday, 21 October 2009 13:30 (30 minutes)*

**Session Classification:** Working Groups Summary (Room: Ramsey Auditorium)



Contribution ID: 23

Type: **not specified**

## **WG2 Summary**

*Wednesday, 21 October 2009 14:00 (30 minutes)*

**Session Classification:** Working Groups Summary (Room: Ramsey Auditorium)

Contribution ID: 24

Type: **not specified**

## **WG3 Summary**

*Wednesday, 21 October 2009 14:30 (30 minutes)*

**Session Classification:** Working Groups Summary (Room: Ramsey Auditorium)

Contribution ID: 25

Type: **not specified**

## **WG4 Summary**

*Wednesday, 21 October 2009 15:30 (30 minutes)*

**Session Classification:** Working Groups Summary (Room: Ramsey Auditorium)

Contribution ID: 26

Type: **not specified**

## **WG5 Summary**

*Wednesday, 21 October 2009 16:00 (30 minutes)*

**Session Classification:** Working Groups Summary (Room: Ramsey Auditorium)

Contribution ID: 27

Type: **not specified**

## What's needed and why

*Monday, 19 October 2009 15:30 (30 minutes)*

**Presenter:** , Mike Zisman

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 28

Type: **not specified**

## Proton Bunching Options for Muon Colliders

*Monday, 19 October 2009 16:00 (30 minutes)*

**Presenter:** , B. Palmer

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 29

Type: **not specified**

## Rapid Cycling Synchrotron Options

*Monday, 19 October 2009 16:30 (30 minutes)*

**Presenter:** , Weiren Chou

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: **30**

Type: **not specified**

## **Beam requirements for next generation kaon experiments**

*Monday, 19 October 2009 15:30 (1 hour)*

**Presenter:** , Doug Bryman

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)



Contribution ID: 31

Type: **not specified**

# **Kaon Yield studies for proton drive beams of 2-8 GeV kinetic energy**

*Monday, 19 October 2009 16:30 (30 minutes)*

**Presenter:** , Konstantin Gudima

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)

Contribution ID: 32

Type: **not specified**

## RF separator concept for low energy K<sup>+</sup> beams

*Monday, 19 October 2009 17:00 (20 minutes)*

**Presenter:** , Peter Cooper

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)

Contribution ID: 33

Type: **not specified**

## Opening remarks

*Monday, 19 October 2009 15:30 (10 minutes)*

**Presenter:** , Yousry Gohar, Alexander Stanculescu

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: 34

Type: **not specified**

## **Subcritical Concepts for Different Missions – Transmutations, Energy Production, Testing, Neutron Source Facility**

*Monday, 19 October 2009 15:40 (1h 50m)*

(Concepts, Performance, Technical Issues, R&D Needs)

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: 35

Type: **not specified**

## Issues with CW acceleration using SRF

*Monday, 19 October 2009 15:30 (35 minutes)*

**Presenter:** , Hasan Padamsee

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 36

Type: **not specified**

## Prospects for a very high power CW SRF Linac

*Monday, 19 October 2009 16:05 (35 minutes)*

**Presenter:** , Bob Rimmer

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 37

Type: **not specified**

## Discussion

*Monday, 19 October 2009 16:40 (50 minutes)*

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: **38**

Type: **not specified**

## Fermilab Welcome

*Monday, 19 October 2009 08:30 (15 minutes)*

**Presenter:** , Young Kee-Kim

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)



Contribution ID: 39

Type: **not specified**

## Welcome from Division of Particle Beams Chair

*Monday, 19 October 2009 08:45 (15 minutes)*

**Presenter:** , Swapan Chattopadhyay

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)

Contribution ID: 40

Type: **not specified**

## **Fermilab Superconducting Radio Frequency Linac**

*Monday, 19 October 2009 09:00 (30 minutes)*

**Presenter:** , Steve Holmes

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)

Contribution ID: 41

Type: **not specified**

## Rare Muon Decay Experiments

*Monday, 19 October 2009 09:30 (30 minutes)*

**Presenter:** , Yoshi Kuno

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)

Contribution ID: 42

Type: **not specified**

## Rare Kaon Decay Experiments

*Monday, 19 October 2009 10:30 (30 minutes)*

**Presenter:** , Doug Bryman

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)

Contribution ID: 43

Type: **not specified**

## Muon Collider

*Monday, 19 October 2009 11:00 (30 minutes)*

**Presenter:** , Bob Palmer

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)

Contribution ID: 44

Type: **not specified**

## Neutrino Factory

*Monday, 19 October 2009 11:30 (30 minutes)*

**Presenter:** , Steve Geer

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)

Contribution ID: 45

Type: **not specified**

## **Accelerator Driven Subcritical Systems (ADS) and its potential**

*Monday, 19 October 2009 13:00 (30 minutes)*

**Presenter:** , Jean-Pierre Revol

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)

Contribution ID: 46

Type: **not specified**

## **Linac for ADS Application**

*Monday, 19 October 2009 13:30 (30 minutes)*

**Presenter:** , Rich Sheffield

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)



Contribution ID: 47

Type: **not specified**

## Accelerator Driven Transmutation of Waste

*Monday, 19 October 2009 14:00 (30 minutes)*

**Presenter:** , Tomas Junquera

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)

Contribution ID: 48

Type: **not specified**

## ADS Reactor Design

*Monday, 19 October 2009 14:30 (30 minutes)*

**Presenter:** , Hamid Ait Abderrahim

**Session Classification:** Plenary Session (Room: Ramsey Auditorium)

Contribution ID: 49

Type: **not specified**

## Medical Isotopes

*Monday, 19 October 2009 15:30 (30 minutes)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)

Contribution ID: 50

Type: **not specified**

## Target Infrastructure

*Monday, 19 October 2009 16:00 (1h 30m)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)

Contribution ID: 51

Type: **not specified**

## Ultra-Cold Neutrons

*Wednesday, 21 October 2009 08:30 (1h 30m)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)

Contribution ID: 52

Type: **not specified**

## **Nuclear Science/ISOL**

*Wednesday, 21 October 2009 10:00 (30 minutes)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)

Contribution ID: 53

Type: **not specified**

## **WG-2 discussion on linac implications**

*Wednesday, 21 October 2009 11:00 (1h 30m)*

Joint Session with WG1

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 54

Type: **not specified**

## **WG-2 discussion on linac implications**

*Wednesday, 21 October 2009 11:00 (1h 30m)*

Joint Session with WG2

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)



Contribution ID: 55

Type: **not specified**

## Group Summary and Recommendations

*Wednesday, 21 October 2009 11:00 (1h 30m)*

**Presenter:** ALL

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: 56

Type: **not specified**

## How Project-X can be made to serve multiple ADS

*Wednesday, 21 October 2009 11:00 (35 minutes)*

**Presenter:** , Rolland Johnson

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 57

Type: **not specified**

## ESS LINAC design

*Wednesday, 21 October 2009 11:35 (35 minutes)*

**Presenter:** , Steve Peggs

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 58

Type: **not specified**

## Discussion - Preparing WG3 summaries

*Wednesday, 21 October 2009 12:10 (20 minutes)*

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 59

Type: **not specified**

## Materials R&D

*Tuesday, 20 October 2009 11:00 (1h 30m)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)

Contribution ID: **60**

Type: **not specified**

## **Liquid and Solid Spallation Targets**

*Tuesday, 20 October 2009 11:00 (1h 30m)*

(Concepts, Performance, Technical Issues, R&D Needs)

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: **61**

Type: **not specified**

## Target R&D

*Tuesday, 20 October 2009 13:30 (2 hours)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)

Contribution ID: **62**

Type: **not specified**

## **Target R&D (continued)**

*Tuesday, 20 October 2009 16:00 (30 minutes)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)



Contribution ID: **63**

Type: **not specified**

## **Nuclear Science**

*Tuesday, 20 October 2009 16:30 (1 hour)*

**Session Classification:** WG5 : Nuclear and Material Science and Material Production (Room: West Wing WH10NW)

Contribution ID: 64

Type: **not specified**

## Liquid and Solid Spallation Targets

*Tuesday, 20 October 2009 13:30 (1 hour)*

(Concepts, Performance, Technical Issues, R&D Needs)

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: 65

Type: **not specified**

## Target/Subcritical Interface

*Tuesday, 20 October 2009 14:30 (35 minutes)*

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: **66**

Type: **not specified**

## **Current and Future Demonstration Projects**

*Tuesday, 20 October 2009 15:05 (25 minutes)*

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: 67

Type: **not specified**

## **Current and Future Demonstration Projects (continued)**

*Tuesday, 20 October 2009 16:00 (50 minutes)*

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: **68**

Type: **not specified**

# Accelerator Design Requirements for Driven Systems

*Tuesday, 20 October 2009 16:50 (1h 25m)*

Joint Session with WG3

**Session Classification:** WG4 : SRF Linac driven subcritical core (Room: 1North WH1NW)

Contribution ID: **69**

Type: **not specified**

## **ADS developments in Britian**

*Tuesday, 20 October 2009 13:30 (35 minutes)*

**Presenter:** , Roger Barlow

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 70

Type: **not specified**

## CERN n-tof system

*Tuesday, 20 October 2009 14:05 (35 minutes)*

**Presenter:** , Enrique Gonzalez

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)



Contribution ID: 71

Type: **not specified**

## ADS developments in Japan

*Tuesday, 20 October 2009 14:40 (35 minutes)*

**Presenter:** , Kenji Kikuchi

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 72

Type: **not specified**

## Discussion

*Tuesday, 20 October 2009 15:15 (15 minutes)*

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 73

Type: **not specified**

## **Discussion (Continued)**

*Tuesday, 20 October 2009 16:00 (25 minutes)*

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 74

Type: **not specified**

## **Joint Session on Accelerator Design Requirements for Driven Systems**

*Tuesday, 20 October 2009 16:50 (1h 25m)*

Joint Session with WG4

**Session Classification:** WG3 : SRF Linac driven subcritical systems (ADS) (Room: 1West WH1W)

Contribution ID: 75

Type: **not specified**

## **P bunch Compression Strategies**

*Tuesday, 20 October 2009 13:30 (30 minutes)*

**Presenter:** , Valeri Lebedev

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 76

Type: **not specified**

## Laser Stripping Status

*Tuesday, 20 October 2009 14:00 (30 minutes)*

**Presenter:** , A. Shishlo

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 77

Type: **not specified**

## Accumulation and Bunch Rotation Schemes

*Tuesday, 20 October 2009 14:30 (30 minutes)*

**Presenter:** , Chuck Ankenbrandt

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: 78

Type: **not specified**

## **FNL R&D Test Area**

*Tuesday, 20 October 2009 15:00 (30 minutes)*

**Presenter:** , Vladimir Shilstev

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)



Contribution ID: 79

Type: **not specified**

## Common Time

*Tuesday, 20 October 2009 16:30 (1 hour)*

**Session Classification:** WG2 : SRF Linac for Muon Collider and Neutrino factory (Room: Hornets Nest WH8X)

Contribution ID: **80**

Type: **not specified**

## **Simulation and Verification of DPA in Materials**

*Tuesday, 20 October 2009 13:30 (30 minutes)*

Joint with WG5

**Presenter:** , Nikolai Mokhov

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)

Contribution ID: **81**

Type: **not specified**

## **CNGS operational experience**

*Tuesday, 20 October 2009 14:00 (30 minutes)*

**Presenter:** , Edda Gschwendtner

**Session Classification:** WG1 : SRF Linac for Neutrino, Muon and Kaon Physics (Room: Racetrack WH7X)