

# **2023 Workshop on Fixed Field Alternating Gradient Accelerators (FFA'23)**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# **Types of FFAs and Transverse Dynamics - Stephen Brooks**

*Sunday, 10 September 2023 09:00 (50 minutes)*

**Presenter:** BROOKS, Stephen (BNL)

**Session Classification:** Lecture I - Stephen Brooks

Contribution ID: 2

Type: **not specified**

## **Transverse Dynamics - Scott Berg**

**Presenter:** BERG, J. Scott (Brookhaven National Laboratory)

**Session Classification:** Lecture I - Stephen Brooks

Contribution ID: 3

Type: **not specified**

## Longitudinal Dynamics - David Kelliher

*Sunday, 10 September 2023 11:00 (1 hour)*

**Presenter:** KELLIHER, David (STFC)

**Session Classification:** Lecture II - David Kelliher and Tom Uesegi

Contribution ID: 4

Type: **not specified**

## Longitudinal Dynamics/RF - Tom Uesegi

*Sunday, 10 September 2023 12:00 (1 hour)*

**Primary author:** UESUGI, Tomonori (Kyoto University Research Reactor Institute)

**Presenter:** UESUGI, Tomonori (Kyoto University Research Reactor Institute)

**Session Classification:** Lecture II - David Kelliher and Tom Uesegi

Contribution ID: 5

Type: **not specified**

## **BMAD Tutorial - Kirsten Deitrick**

*Sunday, 10 September 2023 14:00 (1h 20m)*

**Primary author:** DEITRICK, Kirsten (employee@jlab.org;member@jlab.org)

**Presenter:** DEITRICK, Kirsten (employee@jlab.org;member@jlab.org)

**Session Classification:** Lecture III - Kirsten Deitrick

Contribution ID: 6

Type: **not specified**

## **ZGOUBI Tutorial - Francois Meot**

*Sunday, 10 September 2023 15:40 (1h 20m)*

**Primary author:** MEOT, Francois (bnl)

**Presenter:** MEOT, Francois (bnl)

**Session Classification:** Lecture IV - Francois Meot

Contribution ID: 7

Type: **not specified**

## **Diagnostics in FFAs - Yoshihiro Ishi**

*Monday, 11 September 2023 09:00 (50 minutes)*

**Primary author:** ISHI, Yoshihiro (Kyoto University)

**Presenter:** ISHI, Yoshihiro (Kyoto University)

**Session Classification:** Lecture V - Yoshihiro Ishi and Shinji Machida



Contribution ID: 8

Type: **not specified**

## **FFAs for high power proton machines - Shinji Machida**

*Monday, 11 September 2023 09:50 (50 minutes)*

**Primary author:** MACHIDA, Shinji (STFC Rutherford Appleton Laboratory)

**Presenter:** MACHIDA, Shinji (STFC Rutherford Appleton Laboratory)

**Session Classification:** Lecture V - Yoshihiro Ishi and Shinji Machida

Contribution ID: 9

Type: **not specified**

## **Medical FFA Applications - Carol Johnstone**

*Monday, 11 September 2023 11:00 (1 hour)*

**Primary author:** JOHNSTONE, Carol (Fermi National Accelerator Lab)

**Presenter:** JOHNSTONE, Carol (Fermi National Accelerator Lab)

**Session Classification:** Lecture VI - Carol Johnstone and Kirsten Deitrick

Contribution ID: **10**

Type: **not specified**

## **Electron and ERL FFA Applications - Kirsten Deitrick**

*Monday, 11 September 2023 12:00 (1 hour)*

**Primary author:** DEITRICK, Kirsten (employee@jlab.org;member@jlab.org)

**Presenter:** DEITRICK, Kirsten (employee@jlab.org;member@jlab.org)

**Session Classification:** Lecture VI - Carol Johnstone and Kirsten Deitrick

Contribution ID: 11

Type: **not specified**

## **Analytic tools for FFA design - Max Topp-Mugglestone**

*Monday, 11 September 2023 14:00 (40 minutes)*

**Primary author:** TOPP-MUGGLESTONE, Max (member@ox.ac.uk;student@ox.ac.uk)

**Presenter:** TOPP-MUGGLESTONE, Max (member@ox.ac.uk;student@ox.ac.uk)

**Session Classification:** Lecture VII - Max Topp-Mugglestone and Stephen Brooks

Contribution ID: 12

Type: **not specified**

## **Halbach Area permanent magnet tool - Stephen Brooks**

*Monday, 11 September 2023 14:40 (40 minutes)*

**Presenter:** BROOKS, Stephen (BNL)

**Session Classification:** Lecture VII - Max Topp-Mugglestone and Stephen Brooks

Contribution ID: 13

Type: **not specified**

## OPAL Tutorial - Carl Jolly

*Monday, 11 September 2023 15:40 (1h 20m)*

**Primary author:** JOLLY, Carl (staff@stfc.ac.uk)

**Presenter:** JOLLY, Carl (staff@stfc.ac.uk)

**Session Classification:** Lecture VIII - Carl Jolly

Contribution ID: 14

Type: **not specified**

## Welcome - Andrei Seryi

*Tuesday, 12 September 2023 09:00 (10 minutes)*

**Primary author:** SERYI, Andrei (JLAB)

**Presenter:** SERYI, Andrei (JLAB)

**Session Classification:** Fundamental Ideas I - Session Chair: Dejan Trbojevic

Contribution ID: 15

Type: **not specified**

## **Logistics - Alex Bogacz**

*Tuesday, 12 September 2023 09:10 (10 minutes)*

**Primary author:** BOGACZ, Alex (Jefferson Lab)

**Presenter:** BOGACZ, Alex (Jefferson Lab)

**Session Classification:** Fundamental Ideas I - Session Chair: Dejan Trbojevic



Contribution ID: 16

Type: **not specified**

## 12 GeV CEBAF - Andrei Seryi

*Tuesday, 12 September 2023 09:20 (40 minutes)*

**Primary author:** SERYI, Andrei (JLAB)

**Presenter:** SERYI, Andrei (JLAB)

**Session Classification:** Fundamental Ideas I - Session Chair: Dejan Trbojevic

Contribution ID: 17

Type: **not specified**

## **22 GeV CEBAF energy upgrade - Vasliiy Morozov**

*Tuesday, 12 September 2023 10:00 (40 minutes)*

**Primary author:** MOROZOV, Vasiliy (Thomas Jefferson National Accelerator Facility)

**Presenter:** MOROZOV, Vasiliy (Thomas Jefferson National Accelerator Facility)

**Session Classification:** Fundamental Ideas I - Session Chair: Dejan Trbojevic

Contribution ID: **18**

Type: **not specified**

## **FFA/Renovation - Yoshiharu Mori**

*Tuesday, 12 September 2023 12:30 (30 minutes)*

**Primary author:** MORI, Yoshiharu

**Presenter:** MORI, Yoshiharu

**Session Classification:** Fundamental Ideas II - Session Chair: Carol Johnstone

Contribution ID: 19

Type: **not specified**

## **Constant-tune FFAs - Dejan Trbojevic**

*Tuesday, 12 September 2023 11:00 (30 minutes)*

**Primary author:** TRBOJEVIC, Dejan (CAD)

**Presenter:** TRBOJEVIC, Dejan (CAD)

**Session Classification:** Fundamental Ideas II - Session Chair: Carol Johnstone

Contribution ID: 20

Type: **not specified**

## Constant-tune Cyclotrons - Thomas Planche

*Tuesday, 12 September 2023 12:00 (30 minutes)*

**Primary author:** PLANCHE, Thomas

**Presenter:** PLANCHE, Thomas

**Session Classification:** Fundamental Ideas II - Session Chair: Carol Johnstone

Contribution ID: 21

Type: **not specified**

## **Analytic model of vertical FFAs - Max Topp-Mugglestone**

*Tuesday, 12 September 2023 11:30 (30 minutes)*

**Primary author:** TOPP-MUGGLESTONE, Max (member@ox.ac.uk;student@ox.ac.uk)

**Presenter:** TOPP-MUGGLESTONE, Max (member@ox.ac.uk;student@ox.ac.uk)

**Session Classification:** Fundamental Ideas II - Session Chair: Carol Johnstone

Contribution ID: 22

Type: **not specified**

## **FFA-Based Hadron RLA - Vasilij Morozov**

*Tuesday, 12 September 2023 14:00 (30 minutes)*

**Primary author:** MOROZOV, Vasilij (Thomas Jefferson National Accelerator Facility)

**Presenter:** MOROZOV, Vasilij (Thomas Jefferson National Accelerator Facility)

**Session Classification:** Fundamental Ideas III - Session Chair: Jaroslaw Pasternak

Contribution ID: 23

Type: **not specified**

## **Permanent magnet and electromagnet designs for nonlinear FFA fields - Stephen Brooks**

**Presenter:** BROOKS, Stephen (BNL)

**Session Classification:** FFA Applications I - Session Chair: Yoshihiro Ishi



Contribution ID: 24

Type: **not specified**

## **New FFA-based CW Ion Therapy facilities - Carol Johnstone**

*Tuesday, 12 September 2023 15:40 (25 minutes)*

**Primary author:** JOHNSTONE, Carol (Fermi National Accelerator Lab)

**Presenter:** JOHNSTONE, Carol (Fermi National Accelerator Lab)

**Session Classification:** FFA Applications I - Session Chair: Yoshihiro Ishi

Contribution ID: 25

Type: **not specified**

## Recent activities at FLASH - Reinhard Schulte

*Tuesday, 12 September 2023 16:05 (25 minutes)*

**Primary author:** SCHULTE, Reinhard (member@llu.edu)

**Presenter:** SCHULTE, Reinhard (member@llu.edu)

**Session Classification:** FFA Applications I - Session Chair: Yoshihiro Ishi

Contribution ID: 26

Type: **not specified**

## **FFA-based radiation hardness ion facility - Carol Johnstone**

*Wednesday, 13 September 2023 14:00 (30 minutes)*

**Primary author:** JOHNSTONE, Carol (Fermi National Accelerator Lab)

**Presenter:** JOHNSTONE, Carol (Fermi National Accelerator Lab)

**Session Classification:** FFA Applications II - Session Chair: Akira Sato

Contribution ID: 27

Type: **not specified**

## **Review of national lab FFA technologies - Francois Meot**

*Wednesday, 13 September 2023 14:55 (25 minutes)*

**Primary author:** MEOT, Francois (bnl)

**Presenter:** MEOT, Francois (bnl)

**Session Classification:** FFA Applications II - Session Chair: Akira Sato

Contribution ID: 28

Type: **not specified**

## **Design Evolution of FFA LhARA - Jaroslaw Pasternak**

*Wednesday, 13 September 2023 14:30 (25 minutes)*

**Primary author:** PASTERNAK, Jaroslaw

**Presenter:** PASTERNAK, Jaroslaw

**Session Classification:** FFA Applications II - Session Chair: Akira Sato

Contribution ID: 29

Type: **not specified**

## **CBETA as a source of gamma photons from Compton back-scattering - Kirsten Deitrick**

*Wednesday, 13 September 2023 15:40 (25 minutes)*

**Primary author:** DEITRICK, Kirsten (employee@jlab.org;member@jlab.org)

**Presenter:** DEITRICK, Kirsten (employee@jlab.org;member@jlab.org)

**Session Classification:** FFA Applications III - Session Chair: David Kelliher

Contribution ID: 30

Type: **not specified**

## **Resumption of PRISM-FFA for next generations muon decay experiments - Akira Sato**

*Thursday, 14 September 2023 09:00 (25 minutes)*

**Primary author:** SATO, Akira

**Presenter:** SATO, Akira

**Session Classification:** FFA Hardware and Facilities I - Session Chair: David Hitlin

Contribution ID: **31**

Type: **not specified**

## **Design Study for RAL FETS-FFA - Shinji Machida**

*Thursday, 14 September 2023 10:15 (25 minutes)*

**Primary author:** MACHIDA, Shinji (STFC Rutherford Appleton Laboratory)

**Presenter:** MACHIDA, Shinji (STFC Rutherford Appleton Laboratory)

**Session Classification:** FFA Hardware and Facilities I - Session Chair: David Hitlin



Contribution ID: 32

Type: **not specified**

## **Possibility of using the PRISM-FFA idea in the AMF - Robert Bernstein**

**Presenter:** BERNSTEIN, Robert (FNAL)

**Session Classification:** FFA Hardware and Facilities I - Session Chair: David Hitlin

Contribution ID: 33

Type: **not specified**

## **The TATTOOS initiative at PSI - Daniela Kiselev**

*Thursday, 14 September 2023 09:25 (25 minutes)*

**Presenter:** KISELEV, Daniela

**Session Classification:** FFA Hardware and Facilities I - Session Chair: David Hitlin

Contribution ID: 34

Type: **not specified**

## **Studies of Beam Dynamics in FFA Composed of Canted Cosine Theta Superconducting Magnets - Hannah Norman**

**Presenter:** NORMAN, Hannah

**Session Classification:** FFA Hardware and Facilities II - Session Chair: Shane Koscielniak

Contribution ID: 35

Type: **not specified**

## **TURBO: Novel Large Energy Acceptance Beamline for Hadron Therapy - Adam Steinberg**

*Thursday, 14 September 2023 11:00 (30 minutes)*

**Primary author:** STEINBERG, Adam (University of Manchester)

**Presenter:** STEINBERG, Adam (University of Manchester)

**Session Classification:** FFA Hardware and Facilities II - Session Chair: Shane Koscielniak

Contribution ID: 36

Type: **not specified**

## **FFA Synchrotron for Proton FLASH Therapy facility - Dejan Trbojevic**

*Thursday, 14 September 2023 11:30 (30 minutes)*

**Primary author:** TRBOJEVIC, Dejan (CAD)

**Presenter:** TRBOJEVIC, Dejan (CAD)

**Session Classification:** FFA Hardware and Facilities II - Session Chair: Shane Koscielniak

Contribution ID: 37

Type: **not specified**

## **Electron nodel of vFFA for Harmonytron - Kyosuke Adachi**

*Thursday, 14 September 2023 12:00 (30 minutes)*

**Primary author:** ADACHI, Kyosuke

**Presenter:** ADACHI, Kyosuke

**Session Classification:** FFA Hardware and Facilities II - Session Chair: Shane Koscielniak

Contribution ID: **38**

Type: **not specified**

## **Electron Energy Corporation**

*Thursday, 14 September 2023 14:00 (20 minutes)*

**Primary author:** CHOI, Heeju

**Presenter:** CHOI, Heeju

**Session Classification:** FFA Hardward and Facilities III - Stephen Brooks

Contribution ID: 39

Type: **not specified**

## **Permanent magnet and electromagnet designs for nonlinear FFA fields - Stephen Brooks**

**Presenter:** BROOKS, Stephen (BNL)

**Session Classification:** "Fringe" Ideas I - Session Chair: Heeju Choi



Contribution ID: 40

Type: **not specified**

## **Design Study for RAL FETS-FFA - Shinji Machida**

**Presenter:** MACHIDA, Shinji (STFC Rutherford Appleton Laboratory)

**Session Classification:** "Fringe" Ideas I - Session Chair: Heeju Choi

Contribution ID: 41

Type: **not specified**

## **Design of the FETS-FFA double spiral magnet - Ta-Jen Kuo**

*Thursday, 14 September 2023 16:35 (25 minutes)*

**Primary author:** KUO, Ta-Jen

**Presenter:** KUO, Ta-Jen

**Session Classification:** "Fringe" Ideas I - Session Chair: Heeju Choi

Contribution ID: 42

Type: **not specified**

## **Adiabaticity in Relation to Longitudinal Capture - Shane Koscielniak**

*Friday, 15 September 2023 09:00 (40 minutes)*

**Presenter:** KOSCIELNIAK, Shane

**Session Classification:** FFA Beam Dynamics I - Session Chair: Carl Jolly

Contribution ID: 43

Type: **not specified**

## **Slow Extraction Techniques from FFAs for Charged Particle Therapy - Adam Steinberg**

*Friday, 15 September 2023 09:40 (30 minutes)*

**Primary author:** STEINBERG, Adam

**Presenter:** STEINBERG, Adam

**Session Classification:** FFA Beam Dynamics I - Session Chair: Carl Jolly

Contribution ID: 44

Type: **not specified**

## **Demonstration of Beam Stacking in a Scaling FFA - David Kelliher**

*Friday, 15 September 2023 10:10 (30 minutes)*

**Primary author:** KELLIHER, David (STFC)

**Presenter:** KELLIHER, David (STFC)

**Session Classification:** FFA Beam Dynamics I - Session Chair: Carl Jolly

Contribution ID: 45

Type: **not specified**

## **Machine Learning Based Study of vFFA Beam Optics - Adrian Oeftiger**

*Friday, 15 September 2023 12:30 (30 minutes)*

**Primary author:** OEFTIGER, Adrian (GSI Helmholtz Centre for Heavy Ion Research)

**Presenter:** OEFTIGER, Adrian (GSI Helmholtz Centre for Heavy Ion Research)

**Session Classification:** FFA Beam Dynamics II - Session Chair: Lucas Brouwer

Contribution ID: 46

Type: **not specified**

## **Studies of Beam Dynamics in an FFA Composed of Canted Cosine Theta Superconducting Magnets - Hanna Norman**

**Presenter:** NORMAN, Hanna

**Session Classification:** FFA Beam Dynamics II - Session Chair: Lucas Brouwer

Contribution ID: 47

Type: **not specified**

## **Coasting Instabilities in Scaling FFAs - David Kelliher**

*Friday, 15 September 2023 11:30 (30 minutes)*

**Primary author:** KELLIHER, David (STFC)

**Presenter:** KELLIHER, David (STFC)

**Session Classification:** FFA Beam Dynamics II - Session Chair: Lucas Brouwer



Contribution ID: 48

Type: **not specified**

## **The FFA Code Fixfield - Max Topp-Mugglestone**

*Friday, 15 September 2023 12:00 (30 minutes)*

**Primary author:** TOPP-MUGGLESTONE, Max (member@ox.ac.uk;student@ox.ac.uk)

**Presenter:** TOPP-MUGGLESTONE, Max (member@ox.ac.uk;student@ox.ac.uk)

**Session Classification:** FFA Beam Dynamics II - Session Chair: Lucas Brouwer

Contribution ID: 49

Type: **not specified**

## **Global Perspectives for the Future of FFA Accelerators - Dejan Trbojevic**

*Friday, 15 September 2023 14:00 (30 minutes)*

**Primary author:** TRBOJEVIC, Dejan (CAD)

**Presenter:** TRBOJEVIC, Dejan (CAD)

**Session Classification:** FFA Beam Dynamics III - Session Chair: Vasiliy Morozov

Contribution ID: 50

Type: **not specified**

## **IOTA - Novel Integrable System - Sergei Nagaitsev**

**Presenter:** NAGAITSEV, Sergei

**Session Classification:** "Fringe" Ideas II

Contribution ID: 51

Type: **not specified**

## Closeout - Alex Bogacz

**Presenter:** BOGACZ, Alex (Jefferson Lab)

**Session Classification:** "Fringe" Ideas II

Contribution ID: 52

Type: **not specified**

## **Global Perspectives for the Future of FFA Accelerators - Dejan Trbojevic**

**Presenter:** TRBOJEVIC, Dejan (CAD)

**Session Classification:** "Fringe" Ideas II

Contribution ID: 53

Type: **not specified**

## **SABR Enterprises LLC**

*Thursday, 14 September 2023 14:20 (20 minutes)*

**Presenter:** LOWN, Robert

**Session Classification:** FFA Hardward and Facilities III - Stephen Brooks

Contribution ID: 54

Type: **not specified**

## **KYMA - Jure Počkar**

*Thursday, 14 September 2023 14:40 (20 minutes)*

**Presenter:** POČKAR, Jure

**Session Classification:** FFA Hardward and Facilities III - Stephen Brooks

Contribution ID: 55

Type: **not specified**

## **Proposal for testing permanent magnets at CEBAF**

*Thursday, 14 September 2023 15:00 (20 minutes)*

**Primary author:** BODENSTEIN, Ryan (Thomas Jefferson National Accelerator Facility)

**Presenter:** BODENSTEIN, Ryan (Thomas Jefferson National Accelerator Facility)

**Session Classification:** FFA Hardward and Facilities III - Stephen Brooks



Contribution ID: 56

Type: **not specified**

## **IOTA - Novel Integrable System - Sergei Nagaitsev**

*Friday, 15 September 2023 14:30 (40 minutes)*

**Primary author:** NAGAITSEV, Sergei

**Co-author:** NAGAITSEV, Sergei

**Presenters:** NAGAITSEV, Sergei; NAGAITSEV, Sergei

**Session Classification:** FFA Beam Dynamics III - Session Chair: Vasiliy Morozov

Contribution ID: 57

Type: **not specified**

## Closeout - Alex Bogacz

*Friday, 15 September 2023 15:10 (10 minutes)*

**Primary author:** BOGACZ, Alex (Jefferson Lab)

**Presenter:** BOGACZ, Alex (Jefferson Lab)

**Session Classification:** FFA Beam Dynamics III - Session Chair: Vasiliy Morozov

Contribution ID: 58

Type: **not specified**

## **Multi-Pass Correction Scheme for FFA Arcs**

*Tuesday, 12 September 2023 14:55 (25 minutes)*

**Primary author:** COXE, Alexander (affiliate@jlab.org;member@jlab.org)

**Presenter:** COXE, Alexander (affiliate@jlab.org;member@jlab.org)

**Session Classification:** Fundamental Ideas III - Session Chair: Jaroslaw Pasternak

Contribution ID: 59

Type: **not specified**

## **Current Status on S2E Simulations for 22 GeV CEBAF - Donish Khan**

*Tuesday, 12 September 2023 14:30 (25 minutes)*

**Primary author:** KHAN, Donish

**Presenter:** KHAN, Donish

**Session Classification:** Fundamental Ideas III - Session Chair: Jaroslaw Pasternak

Contribution ID: **60**

Type: **not specified**

## **Tour of LERF Accelerator**

*Wednesday, 13 September 2023 10:00 (1 hour)*

Contribution ID: **61**

Type: **not specified**

## **Tour of Hall D**

*Wednesday, 13 September 2023 11:00 (1 hour)*

Contribution ID: **62**

Type: **not specified**

## **Tour of Test Lab (SRF)**

*Wednesday, 13 September 2023 12:00 (1 hour)*

Contribution ID: **63**

Type: **not specified**

## **Discussions**

*Tuesday, 12 September 2023 16:30 (30 minutes)*

**Session Classification:** FFA Applications I - Session Chair: Yoshihiro Ishi



Contribution ID: 64

Type: **not specified**

## **Four-Hall Operation with CEBAF FFA (Extraction Scheme)**

*Wednesday, 13 September 2023 16:05 (25 minutes)*

**Primary author:** KAZIMI, Reza

**Presenter:** KAZIMI, Reza

**Session Classification:** FFA Applications III - Session Chair: David Kelliher

Contribution ID: 65

Type: **not specified**

## Discussion

*Wednesday, 13 September 2023 16:30 (30 minutes)*

**Session Classification:** FFA Applications III - Session Chair: David Kelliher

Contribution ID: **66**

Type: **not specified**

## **Canted-Cosine-Theta SC Magnets - Lucas Brouwer**

*Thursday, 14 September 2023 15:40 (30 minutes)*

**Presenter:** BROUWER, Lucas (Staff@lbl.gov;Member@lbl.gov;Other@lbl.gov)

**Session Classification:** "Fringe" Ideas I - Session Chair: Heeju Choi

Contribution ID: 67

Type: **not specified**

## **Proposal for testing permanent magnets at CEBAF**

**Presenter:** BODENSTEIN, Ryan (Thomas Jefferson National Accelerator Facility)

**Session Classification:** "Fringe" Ideas I - Session Chair: Heeju Choi

Contribution ID: 68

Type: **not specified**

## **Conceptual design of FFA for super heavy element production using ERIT - Yoshihiro Ishi**

*Friday, 15 September 2023 11:00 (30 minutes)*

**Primary author:** ISHI, Yoshihiro (Kyoto University)

**Presenter:** ISHI, Yoshihiro (Kyoto University)

**Session Classification:** FFA Beam Dynamics II - Session Chair: Lucas Brouwer

Contribution ID: 72

Type: **not specified**

## **Some FFA Applications - Carol Johnstone**

*Sunday, 10 September 2023 09:50 (50 minutes)*

**Primary author:** JOHNSTONE, Carol (Fermi National Accelerator Lab)

**Presenter:** JOHNSTONE, Carol (Fermi National Accelerator Lab)

**Session Classification:** Lecture I - Stephen Brooks

Contribution ID: 73

Type: **not specified**

## **Permanent magnet and electromagnet designs for nonlinear FFA fields - Stephen Brooks**

*Thursday, 14 September 2023 09:50 (25 minutes)*

**Presenter:** BROOKS, Stephen (BNL)

**Session Classification:** FFA Hardware and Facilities I - Session Chair: David Hitlin

Contribution ID: 74

Type: **not specified**

## Discussion

*Thursday, 14 September 2023 12:30 (30 minutes)*

**Session Classification:** FFA Hardware and Facilities II - Session Chair: Shane Koscielniak



Contribution ID: 75

Type: **not specified**

## 'Compact Accelerators based on Canted-Cosine-Theta Magnets' - Hannah Norman

*Thursday, 14 September 2023 16:10 (25 minutes)*

**Presenter:** NORMAN, Hannah

**Session Classification:** "Fringe" Ideas I - Session Chair: Heeju Choi

Contribution ID: 77

Type: **not specified**

## Virtual Tour of CEBAF

*Wednesday, 13 September 2023 09:00 (1 hour)*