Pathway Fermilab and Brookhaven Summer School -BNL Neutrino Week

Report of Contributions

Contribution ID: 1 Type: not specified

Onboarding and badging

Monday 3 July 2023 08:00 (1 hour)

Students will get a badge and some introductory materials.

Contribution ID: 2 Type: not specified

Roundtable introductions and Computing setup

Monday 3 July 2023 09:00 (1 hour)

Mathematica UNIT 1: Introduction

Contribution ID: 3 Type: not specified

Mathematica UNIT 1: Introduction

Monday 3 July 2023 10:00 (1 hour)

Initial introduction to problem solving by computer.

Presenter: DIWAN, Milind Vaman (Brookhaven National Laboratory (US))

Contribution ID: 4 Type: **not specified**

Mathematica UNIT 2: Basics

Monday 3 July 2023 11:00 (1 hour)

Introduction to using Mathematica to solve problems.

Presenter: DIWAN, Milind Vaman (Brookhaven National Laboratory (US))

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Lunch

Contribution ID: 5 Type: **not specified**

Lunch

Contribution ID: 6 Type: not specified

Mathematica UNIT 3: Mechanics

Monday 3 July 2023 13:30 (1 hour)

Simple mechanics, astronomy, calculate the amount of matter in our galaxy.

Presenter: DIWAN, Milind Vaman (Brookhaven National Laboratory (US))

Contribution ID: 7 Type: **not specified**

RHIC/Magnet Division Tours

Monday 3 July 2023 14:30 (1h 30m)

Contribution ID: 8 Type: not specified

Mathematica UNIT 4: Electromagnetism

Wednesday 5 July 2023 09:00 (1h 30m)

Presenter: DIWAN, Milind Vaman (Brookhaven National Laboratory (US))

Contribution ID: 9 Type: not specified

Mathematica UNIT 5: Statistics

Wednesday 5 July 2023 10:30 (1h 30m)

Presenter: DIWAN, Milind Vaman (Brookhaven National Laboratory (US))

Contribution ID: 10 Type: not specified

Mathematica UNIT 6: Neutrino Oscillations

Wednesday 5 July 2023 13:30 (1h 30m)

Presenter: DIWAN, Milind Vaman (Brookhaven National Laboratory (US))

Contribution ID: 11 Type: not specified

BLIP/Isotope production/Actinium 225/Scintillation lab Tours

Wednesday 5 July 2023 15:00 (1h 30m)

Contribution ID: 12 Type: not specified

Activities Review and Q&A

Thursday 6 July 2023 09:00 (1 hour)

Authors: Dr F. CARNEIRO, Mateus (Brookhaven National Laboratory); Dr F. CARNEIRO, Mateus (Brookhaven National Laboratory)

Presenters: Dr F. CARNEIRO, Mateus (Brookhaven National Laboratory); Dr F. CARNEIRO, Mateus (Brookhaven National Laboratory)

Contribution ID: 13 Type: not specified

Meet STEM professionals

Thursday 6 July 2023 10:00 (1 hour)

Pathway Fermil $\,\cdots\,$ / Report of Contributions Talk: What is C14?

Contribution ID: 14 Type: not specified

Talk: What is C14?

Thursday 6 July 2023 11:00 (1 hour)

Contribution ID: 15 Type: not specified

NNDC visit and exercises

Thursday 6 July 2023 13:30 (3 hours)

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Contribution ID: 16 Type: not specified

Talk: Reactor Neutrinos

Friday 7 July 2023 09:00 (1 hour)

Talk: Reactor Neutrinos

Author: Dr ZHANG, Chao (Brookhaven National Laboratory)

Presenter: Dr ZHANG, Chao (Brookhaven National Laboratory)

Contribution ID: 17 Type: not specified

Meet Interns in Nuclear/Particle Physics group

Friday 7 July 2023 11:00 (1 hour)

Pathway Fermil · · · / Report of Contributions Talk: Detector Technologies

Contribution ID: 18 Type: not specified

Talk: Detector Technologies

Friday 7 July 2023 10:00 (1 hour)

Author: LINDEN, Steven

Presenter: LINDEN, Steven

Contribution ID: 19 Type: not specified

Water based Liquid Scintillator 1-ton Detector Experience

Friday 7 July 2023 13:30 (3 hours)

Visit to the 1-ton Water-based Liquid Scintillator (WbLS) detector in the Instrumentation Division. Students will be divided in 4 groups. Each group will take 15-20 minutes of data with the detector and later analyze it.

Authors: LAWLEY, Gannon; VICENZI, Matteo (Brookhaven National Laboratory)

Co-author: YANG, Guang

Presenters: LAWLEY, Gannon; YANG, Guang; VICENZI, Matteo (Brookhaven National Labora-

tory)