

# **Physics Opportunities at Beam Dump Facility in PIP-II and Beyond**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Opportunities for Beam Dump facilities in the PIP-II and ACE eras**

*Wednesday, 10 May 2023 13:10 (20 minutes)*

**Presenter:** FLAUGHER, Brenna (Fermilab)

**Session Classification:** Welcome & Opening Session - Curia II (WH2XO)

Contribution ID: 2

Type: **not specified**

## **PIP-II and the PIP-II Accumulator Ring**

*Wednesday, 10 May 2023 13:30 (30 minutes)*

**Presenter:** PELLICO, William (FNAL)

**Session Classification:** Welcome & Opening Session - Curia II (WH2XO)

Contribution ID: 3

Type: **not specified**

## **Fermilab Accelerator Complex Upgrades Beyond PIP-II**

*Wednesday, 10 May 2023 14:00 (30 minutes)*

**Presenter:** ELDRED, Jeffrey (Fermilab)

**Session Classification:** Welcome & Opening Session - Curia II (WH2XO)

Contribution ID: 4

Type: **not specified**

## **Dark sectors at PIP2-BD**

*Wednesday, 10 May 2023 15:00 (30 minutes)*

**Presenter:** DUTTA, Bhaskar (Texas A&M University)

**Session Classification:** Welcome & Opening Session - Curia II (WH2XO)

Contribution ID: 5

Type: **not specified**

## Millicharged particles

*Wednesday, 10 May 2023 15:30 (30 minutes)*

**Presenter:** LIU, Zhen (University of Minnesota)

**Session Classification:** Welcome & Opening Session - Curia II (WH2XO)

Contribution ID: 6

Type: **not specified**

## Other ideas

*Wednesday, 10 May 2023 16:00 (30 minutes)*

**Presenter:** HARNIK, Roni (FNAL)

**Session Classification:** Welcome & Opening Session - Curia II (WH2XO)

Contribution ID: 7

Type: **not specified**

## Panel Discussion

*Wednesday, 10 May 2023 16:30 (30 minutes)*

**Session Classification:** Welcome & Opening Session - Curia II (WH2XO)



Contribution ID: 8

Type: **not specified**

## Opportunities at eV

*Thursday, 11 May 2023 09:00 (20 minutes)*

**Presenter:** ESTRADA VIGIL, Juan (FNAL)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)

Contribution ID: 9

Type: **not specified**

## **Physics Opportunities at PIP-II with an Accumulator Ring and a keV-scale Detector Threshold**

*Thursday, 11 May 2023 09:20 (20 minutes)*

**Presenter:** ZETTLEMOYER, Jacob (Fermilab)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)

Contribution ID: **10**

Type: **not specified**

## **Opportunities at MeV**

*Thursday, 11 May 2023 09:40 (20 minutes)*

**Presenter:** YU, Jaehoon (University of Texas at Arlington)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)

Contribution ID: **11**

Type: **not specified**

## **CCDs**

*Thursday, 11 May 2023 10:30 (15 minutes)*

**Presenter:** CERVANTES VERGARA, Brenda

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)

Contribution ID: 12

Type: **not specified**

## **Cryogenic Detectors for Low Threshold Dark Sector Searches**

*Thursday, 11 May 2023 10:45 (15 minutes)*

**Presenter:** MAHAPATRA, Rupak (Texas A&M University)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)

Contribution ID: 13

Type: **not specified**

## CCM@FNAL

*Thursday, 11 May 2023 12:00 (15 minutes)*

**Presenter:** VAN DE WATER, Richard (LANL)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)

Contribution ID: 14

Type: **not specified**

## **nuBDXDRIFT**

*Thursday, 11 May 2023 11:15 (15 minutes)*

**Presenter:** SNOWDEN-IFFT, Daniel (Occidental College)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)

Contribution ID: 15

Type: **not specified**

## **PIP2-BD: Searching for New Physics at an Upgraded Fermilab Accelerator Complex**

*Thursday, 11 May 2023 11:30 (15 minutes)*

**Presenter:** ZETTLEMOYER, Jacob (Fermilab)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)



Contribution ID: 16

Type: **not specified**

## Organization of writing groups

*Thursday, 11 May 2023 12:15 (15 minutes)*

**Presenter:** ESTRADA VIGIL, Juan (FNAL)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)

Contribution ID: 17

Type: **not specified**

## Welcome and workshop goals

*Wednesday, 10 May 2023 13:00 (10 minutes)*

**Presenter:** TOUPS, Matthew (FNAL)

**Session Classification:** Welcome & Opening Session - Curia II (WH2XO)

Contribution ID: **18**

Type: **not specified**

## **DAMSA Experiment**

*Thursday, 11 May 2023 11:00 (15 minutes)*

**Presenter:** YU, Jaehoon (University of Texas at Arlington)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)

Contribution ID: 21

Type: **not specified**

## Introduction and meeting goals

*Friday, 12 May 2023 13:30 (30 minutes)*

**Presenter:** YU, Jaehoon (University of Texas at Arlington)

**Session Classification:** DAMSA Experiment Concepts - Snake Pit (WH2NE) - zoom link: Join Zoom Meeting <https://uta.zoom.us/j/7254693109?pwd=ZG1Ec1JuRWdYenU3N1BFRVZqZDUvUT09>

Contribution ID: 22

Type: **not specified**

## Potential Physics Topics at DAMSA

*Friday, 12 May 2023 14:00 (30 minutes)*

**Presenters:** KIM, Doojin (Texas A&M University); KIM, Doojin (Texas A&M University); KIM, Doojin (University of Arizona)

**Session Classification:** DAMSA Experiment Concepts - Snake Pit (WH2NE) - zoom link: Join Zoom Meeting <https://uta.zoom.us/j/7254693109?pwd=ZG1Ec1JuRWdYenU3N1BFRVZqZDUvUT09>

Contribution ID: 23

Type: **not specified**

## DAMSA at PIP-II Beam Dump

*Friday, 12 May 2023 14:30 (30 minutes)*

**Presenters:** BOGENSCHUETZ, Jacob; JANG, Wooyoung (University of Texas at Arlington)

**Session Classification:** DAMSA Experiment Concepts - Snake Pit (WH2NE) - zoom link: Join Zoom Meeting <https://uta.zoom.us/j/7254693109?pwd=ZG1Ec1JuRWdYenU3N1BFRVZqZDUvUT09>

Contribution ID: 24

Type: **not specified**

## Discussions

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

**Session Classification:** DAMSA Experiment Concepts - Snake Pit (WH2NE) - zoom link: Join Zoom Meeting <https://uta.zoom.us/j/7254693109?pwd=ZG1Ec1JuRWdYenU3N1BFRVZqZDUvUT09>

Contribution ID: 25

Type: **not specified**

## **eV Scale Working Group**

*Friday, 12 May 2023 09:00 (20 minutes)*

**Presenter:** ESTRADA VIGIL, Juan (FNAL)

**Session Classification:** Working group summaries - Curia II (WH2XO)



Contribution ID: 26

Type: **not specified**

## keV Scale Working Group

*Friday, 12 May 2023 09:20 (20 minutes)*

**Presenter:** ZETTLEMOYER, Jacob (Fermilab)

**Session Classification:** Working group summaries - Curia II (WH2XO)

Contribution ID: 27

Type: **not specified**

## MeV Scale Working Group

*Friday, 12 May 2023 09:40 (20 minutes)*

**Presenter:** YU, Jaehoon (University of Texas at Arlington)

**Session Classification:** Working group summaries - Curia II (WH2XO)

Contribution ID: **28**

Type: **not specified**

## Discussions

*Friday, 12 May 2023 10:00 (30 minutes)*

**Session Classification:** Working group summaries - Curia II (WH2XO)

Contribution ID: 29

Type: **not specified**

## **Publication plans and other follow up**

*Friday, 12 May 2023 11:00 (1h 30m)*

**Session Classification:** Working group summaries - Curia II (WH2XO)

Contribution ID: **30**

Type: **not specified**

## **LArTPC technology**

*Thursday, 11 May 2023 11:45 (15 minutes)*

**Presenter:** TSAI, Yun-Tse (SLAC)

**Session Classification:** Opportunities for Experiments - Curia II (WH2XO)