

**BNL Snowmass retreat day**

# **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Summary of energy frontier activities (10+5)

*Friday, 17 December 2021 09:15 (15 minutes)*

**Presenter:** TRICOLI, Alessandro (Brookhaven National Lab)

**Session Classification:** Summaries I

Contribution ID: 2

Type: **not specified**

## **Summary of Rare processes and precision activities(10+5)**

*Friday, 17 December 2021 10:00 (15 minutes)*

**Presenter:** DI CANTO, Angelo (BNL)

**Session Classification:** Summaries I

Contribution ID: 3

Type: **not specified**

## **Summary of Neutrino Physics Frontier and Underground Facilities (10+5)**

*Friday, 17 December 2021 09:45 (15 minutes)*

**Presenter:** WORCESTER, Elizabeth (BNL)

**Session Classification:** Summaries I

Contribution ID: 4

Type: **not specified**

## Summary of Theory Frontier activities (10+5)

*Friday, 17 December 2021 09:30 (15 minutes)*

**Presenter:** DAWSON, Sally (BNL)

**Session Classification:** Summaries I

Contribution ID: 5

Type: **not specified**

## **Accelerator Frontier Summary (10+5)**

*Friday, 17 December 2021 10:15 (15 minutes)*

**Presenter:** ROSER, Thomas (BNL)

**Session Classification:** Summaries I

Contribution ID: 6

Type: **not specified**

## **Instrumentation Frontier Summary (10+5)**

*Friday, 17 December 2021 11:00 (15 minutes)*

**Presenter:** CARINI, Gabriella

**Session Classification:** Summaries II

Contribution ID: 7

Type: **not specified**

## **Computational Frontier Summary (10+5)**

*Friday, 17 December 2021 11:15 (15 minutes)*

**Presenter:** Prof. BOYLE, Peter (BNL)

**Session Classification:** Summaries II



Contribution ID: 8

Type: **not specified**

## **Summary of Cosmic Frontier activities(10+5)**

*Friday, 17 December 2021 11:30 (15 minutes)*

**Presenter:** SLOSAR, Anze (BNL)

**Session Classification:** Summaries II

Contribution ID: 9

Type: **not specified**

## **Community Engagement Summary of activities (10+5)**

*Friday, 17 December 2021 11:45 (15 minutes)*

**Presenter:** ASSAMAGAN, ketevi

**Session Classification:** Summaries II

Contribution ID: **10**

Type: **not specified**

## Introduction

*Friday, 17 December 2021 09:00 (15 minutes)*

**Presenter:** DENISOV, Dmitri (Brookhaven National Laboratory)

**Session Classification:** Summaries I

Contribution ID: 11

Type: **not specified**

## Neutrinos and Snowmass (8+5)

*Friday, 17 December 2021 14:05 (13 minutes)*

**Presenter:** DENTON, Peter

**Session Classification:** Contributions

Contribution ID: 12

Type: **not specified**

## Summary of nutau Snowmass workshop (8+5)

*Friday, 17 December 2021 14:18 (10 minutes)*

**Presenter:** BISHAI, Mary (Brookhaven National Laboratory)

**Session Classification:** Contributions

Contribution ID: 13

Type: **not specified**

## Neutrino BSM Theory (8+5)

*Friday, 17 December 2021 14:28 (13 minutes)*

**Presenter:** GEHRLEIN, Julia

**Session Classification:** Contributions

Contribution ID: 16

Type: **not specified**

## **Prospects for H to Invisible with VBF+MET (8+5)**

*Friday, 17 December 2021 13:52 (13 minutes)*

**Presenter:** BOYE, Diallo

**Session Classification:** Contributions

Contribution ID: 17

Type: **not specified**

## **Perturbative Calculations for Precision High-Energy Phenomenology (8+5)**

*Friday, 17 December 2021 13:39 (13 minutes)*

**Presenter:** NEUMANN, Tobias (Brookhaven National Laboratory)

**Session Classification:** Contributions



Contribution ID: 18

Type: **not specified**

## **Exploring polarized vector bosons to measure the Higgs boson properties in diboson channels (8+5)**

*Friday, 17 December 2021 13:26 (13 minutes)*

**Presenter:** BARONE, Gaetano (BNL)

**Session Classification:** Contributions

Contribution ID: 19

Type: **not specified**

## **Sensitivity to Longitudinal VBS at 100 TeV (8+5)**

*Friday, 17 December 2021 13:13 (13 minutes)*

**Presenter:** MWEWA, Chilufya

**Session Classification:** Contributions

Contribution ID: 21

Type: **not specified**

## Forward Physics at the LHC (8+5)

*Friday, 17 December 2021 15:26 (13 minutes)*

**Presenter:** DIWAN, Milind (BNL)

**Session Classification:** BNL Contributions

Contribution ID: 22

Type: **not specified**

## **Proton EDM (8+5)**

*Friday, 17 December 2021 15:39 (13 minutes)*

**Presenter:** MORSE, Bill (BNL)

**Session Classification:** BNL Contributions

Contribution ID: 23

Type: **not specified**

## **Lepton-Flavor-Violating ALPs at the Electron-Ion Collider: A Golden Opportunity (8+5)**

*Friday, 17 December 2021 15:52 (13 minutes)*

**Presenter:** DAVOUDIASL, Hooman (Brookhaven National Laboratory)

**Session Classification:** BNL Contributions

Contribution ID: 24

Type: **not specified**

## Permanent Magnet Fixed Field Electron Ion Colliders (8+5)

*Friday, 17 December 2021 16:05 (13 minutes)*

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

**Session Classification:** BNL Contributions

Contribution ID: 25

Type: **not specified**

## **Higgs portal Vector-Dark-Matter Revisit (8+5)**

*Friday, 17 December 2021 15:00 (13 minutes)*

**Presenter:** ZAAZOUA, Mohamed

**Session Classification:** BNL Contributions

Contribution ID: 26

Type: **not specified**

## **ERLs (8+5)**

*Friday, 17 December 2021 16:18 (13 minutes)*

**Presenter:** LITVINENKO, Vladimir (BNL and Stony Brook University)

**Session Classification:** BNL Contributions



Contribution ID: 27

Type: **not specified**

## HH@muon collider(8+5)

*Friday, 17 December 2021 13:00 (13 minutes)*

**Presenter:** BROST, Elizabeth (Brookhaven National Laboratory)

**Session Classification:** Contributions

Contribution ID: 28

Type: **not specified**

## **Development of 4D tracking calorimeter with Vertical Drift LArTPC (8+5)**

*Friday, 17 December 2021 16:31 (13 minutes)*

**Presenter:** QIAN, Xin (BNL)

**Session Classification:** BNL Contributions

Contribution ID: 29

Type: **not specified**

## **Exploring Strange Origin of Dirac Neutrino Masses at Hadron Colliders(8+5)**

*Friday, 17 December 2021 15:13 (13 minutes)*

**Presenter:** SULLIVAN, Matthew (Brookhaven National Laboratory)

**Session Classification:** BNL Contributions