

# EXCESS2022 Workshop



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## **Background Contributions - Session 2**

Contribution ID: 2

Type: **not specified**

## Introduction / EXCESS2021 / White Paper

*Tuesday, February 15, 2022 4:10 PM (20 minutes)*

**Author:** KAZNACHEEVA, Margarita (TU Munich)

**Presenter:** KAZNACHEEVA, Margarita (TU Munich)

**Session Classification:** Background Contributions

Contribution ID: 3

Type: **not specified**

## **Luminescence as Background Source in SuperCDMS-HVeV**

*Tuesday, February 15, 2022 4:30 PM (30 minutes)*

**Author:** REN, Runze (Northwestern University )

**Presenter:** REN, Runze (Northwestern University )

**Session Classification:** Background Contributions

Contribution ID: 4

Type: **not specified**

## Characterization of Single Charge Events in CCDs

*Tuesday, February 15, 2022 5:00 PM (30 minutes)*

**Author:** CABABIE, Mariano

**Presenter:** CABABIE, Mariano

**Session Classification:** Background Contributions

Contribution ID: 5

Type: **not specified**

## Origin of Low Energy Events

*Tuesday, February 15, 2022 5:30 PM (30 minutes)*

**Author:** EGANA-UGRINOVIC, Daniel

**Presenter:** EGANA-UGRINOVIC, Daniel

**Session Classification:** Background Contributions

Contribution ID: 6

Type: **not specified**

## Electron Emission in Liquid Xenon Detectors

*Tuesday, February 15, 2022 6:30 PM (30 minutes)*

**Author:** KOPEC, Abigail

**Presenter:** KOPEC, Abigail

**Session Classification:** Background Contributions

Contribution ID: 7

Type: **not specified**

## Electron Emission in Liquid Argon Detectors

*Tuesday, February 15, 2022 7:00 PM (30 minutes)*

**Author:** BONIVENTO, Walter

**Presenter:** BONIVENTO, Walter

**Session Classification:** Background Contributions



Contribution ID: 8

Type: **not specified**

## **Low-Energy Phonon and Heat-Only Events in Solid-State Detectors**

*Tuesday, February 15, 2022 7:30 PM (30 minutes)*

**Author:** PYLE, Matt

**Presenter:** PYLE, Matt

**Session Classification:** Background Contributions

Contribution ID: 9

Type: **not specified**

## Exotic low-yield Nuclear Recoil

*Wednesday, February 16, 2022 4:30 PM (30 minutes)*

**Author:** KAHN, Yonatan

**Presenter:** KAHN, Yonatan

**Session Classification:** Understanding "Signals"

Contribution ID: **10**

Type: **not specified**

## **The Migdal Effect**

*Wednesday, February 16, 2022 5:00 PM (30 minutes)*

**Presenter:** SHOJI, Yutaro

**Session Classification:** Understanding "Signals"

Contribution ID: **11**

Type: **not specified**

# **The Phonon Background from Gamma-rays**

*Wednesday, February 16, 2022 5:30 PM (30 minutes)*

**Author:** BERGHAUS, Kim

**Presenter:** BERGHAUS, Kim

**Session Classification:** Understanding "Signals"

Contribution ID: 12

Type: **not specified**

# Ionization Yield of Nuclear Recoils in Noble Liquids

*Wednesday, February 16, 2022 6:30 PM (15 minutes)*

**Author:** XU, Jingke

**Presenter:** XU, Jingke

**Session Classification:** Calibration

Contribution ID: 13

Type: **not specified**

## **Measurement of low-energy Compton scattering with a DAMIC-M skipper CCD**

*Wednesday, February 16, 2022 7:00 PM (15 minutes)*

**Author:** PRIVITERA, Paolo

**Presenter:** PRIVITERA, Paolo

**Session Classification:** Calibration

Contribution ID: 14

Type: **not specified**

# Ionization Yield from Nuclear Recoils in Germanium

*Wednesday, February 16, 2022 7:15 PM (15 minutes)*

**Author:** COLLAR, Juan

**Presenter:** COLLAR, Juan

**Session Classification:** Calibration

Contribution ID: 15

Type: **not specified**

# Ionization Yield of Nuclear Recoils in SuperCDMS

*Wednesday, February 16, 2022 7:30 PM (15 minutes)*

**Author:** SAAB, Tarek

**Presenter:** SAAB, Tarek

**Session Classification:** Calibration



Contribution ID: **16**

Type: **not specified**

## Novel low-energy Neutron Sources

*Thursday, February 17, 2022 4:30 PM (30 minutes)*

**Author:** HERTEL, Scott

**Presenter:** HERTEL, Scott

**Session Classification:** Calibration

Contribution ID: 17

Type: **not specified**

## Pulsed Laser Calibration

*Thursday, February 17, 2022 5:00 PM (30 minutes)*

**Author:** STIFTER, Kelly

**Presenter:** STIFTER, Kelly

**Session Classification:** Calibration

Contribution ID: **18**

Type: **not specified**

## **Backgrounds for Superconducting Nanowire Detectors**

*Thursday, February 17, 2022 6:00 PM (30 minutes)*

**Author:** BERGGREN, Karl

**Presenter:** BERGGREN, Karl

**Session Classification:** Future Efforts, Quantum

Contribution ID: **19**

Type: **not specified**

# Effects of Background Radiation on Qubit Decoherence

*Thursday, February 17, 2022 6:30 PM (30 minutes)*

**Author:** CARDANI, Laura

**Presenter:** CARDANI, Laura

**Session Classification:** Future Efforts, Quantum

Contribution ID: **20**

Type: **not specified**

## **Low Energy Calibration in DarkSide-50**

*Wednesday, February 16, 2022 6:45 PM (15 minutes)*

**Author:** RODE, Julie

**Presenter:** RODE, Julie

**Session Classification:** Calibration