

Session Program

31 May 2025

EXCESS25@LTD

Talks

Saturday 31 May

09:00

Talks: Block 1

Session

09:00–09:15 **Introduction**

09:15–09:40 **Low Energy Excess in CRESST**

Speaker

Francesca Pucci

09:40–10:05 **New results on the LEE from the NUCLEUS experiment**

Speaker

Elisabetta Bossio

10:05–10:30

New Insights Into Low Energy Excess Noise: Scalings and Sources Below 10 eV

Speaker

Michael Williams

10:30

11:00

Talks: Block 2

Session

11:00–11:25 **Observing the Low Energy Excess using SuperCDMS-HVeV detectors**

Speaker

Kyle Kennard

11:25–11:50

Investigating EXCESS with Magnetic Phonon Sensors and Superconducting Tunnel Junctions

Speaker

Geon-Bo Kim

11:50–12:15 **New results from BULLKID**

Speaker

Giorgio Del Castello

12:15–12:40 **DELIGHT's Approach to tackle Low-Energy Excess (LEE)**

Speaker

Lena Hauswald

12:40

13:40

Talks: Block 3

Session

13:40–14:05 **EXCESS: Devices, Observations, Outlook**

Speaker

Felix Wagner

14:05-14:30

Correlated and Quasiparticle-induced Errors in Superconducting Quantum Processors

Speaker

Vladislav Kurilovich

14:30-14:55

Superconducting Quasiparticle-Amplifying Transmons

Speaker

Caleb Fink

14:55-15:20

Origins of Fluctuations in Superconducting Nanowires

Speaker

Emma Batson

15:20

15:50

Talks: Block 4

Session

15:50-16:15

Summary of Low Energy Backgrounds in CCDs

Speaker

Ana Martina Botti

16:15-16:40

Dark counts in optical superconducting-transition edge sensors for rare events

Speaker

Laura Manenti

16:40-17:05

Evaluating Low-Energy Excess Events with 1 eV Threshold Superconducting Tunnel Junction Sensors

Speaker

Stephan Friedrich

17:05