

EXCESS22@IDM

A satellite of the IDM 2022 conference
Welcome and opening,
Vienna, July 16, 2022



14th International Conference on
Identification of Dark Matter

18-22 July 2022
Vienna, Austria

The journey so far...

A broad discussion about low energy excesses started in the community: *the EXCESS workshop*.

First iteration in 06/2021, describing measurements from 10 collaborations. Summary paper under review! [arXiv:2202.05097](https://arxiv.org/abs/2202.05097)

Second iteration in 02/2022, focus on interpretations.

Third iteration in 07/2022 as satellite of the IDM2022@Vienna.



16 July 2022
Technical University Vienna
Europe/Zurich timezone

EXCESS workshop: Descriptions of rising low-energy spectra

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EXCESS Workshop

15–16 Jun 2021
Online

Europe/Vienna timezone

🕒 Starts 15 Jun 2021, 16:30
Ends 16 Jun 2021, 20:05
Europe/Vienna

👤 Alexander Fuss
Felix Wagner
Florian Reindl
Margarita Kaznacheeva



EXCESS2022 Workshop

15-17 February 2022
Online
Europe/Berlin timezone

🕒 Starts 15 Feb 2022, 16:00
Ends 17 Feb 2022, 21:00
Europe/Berlin

👤 Belina von Krosigk
Daniel Baxter
Marie-Cécile Piro
Rouven Essig
Yonit Hochberg

Advisory Board

Belina von Krosigk (SuperCDMS)
Dan Baxter (DAMIC)
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Raimund Strauss (NUCLEUS)
Rouven Essig (SENSEI)
Rupak Mahapatra (MINER)
Vasilie Ghete (NUCLEUS)

Time table

Please keep your scheduled time slot for the talk, so that we have enough time for questions and discussion!

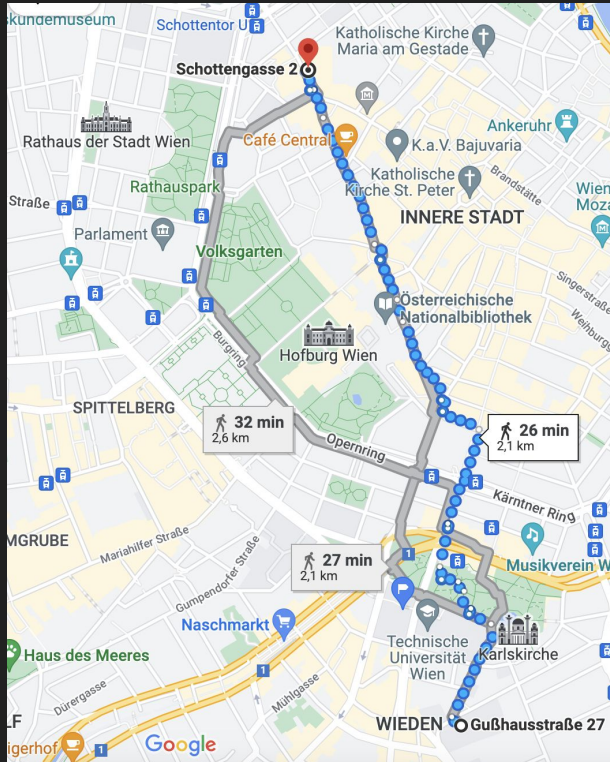
09:00	Welcome <i>Felix Wagner</i>	09:00 - 09:15
	Technical University Vienna	
	Review on Low-Energy Excess Signals Observed in Cryogenic Rare Event Search Experiments <i>Jules GASCON</i>	09:15 - 09:45
	Technical University Vienna	
	Review on Excess Signals Observed in CCD Detectors <i>Daniel Baxter</i>	09:45 - 10:15
10:00	Technical University Vienna	
	Coffee break	10:15 - 10:45
	Technical University Vienna	
	Ionization efficiency at sub-keV energies for crystals and noble liquids <i>Youssef Sarkis Mobarak et al.</i>	10:45 - 11:10
11:00	Technical University Vienna	
	Background discrimination for low quanta events with NEWS-G <i>Francisco Andres Vazquez de Sola</i>	11:10 - 11:35
	Technical University Vienna	
	Low-energy event excess in SuperCDMS HVeV detectors <i>Dr Valentina Novati</i>	11:35 - 12:00
12:00	Technical University Vienna	
	Lunch break	

Suggestions for lunch places are on the pinboard!

Group picture

13:00	Technical University Vienna	12:00 - 13:30
	Latest results on the low energy excess in CRESST-III <i>Dominik Raphael Fuchs</i>	13:30 - 13:55
	Technical University Vienna	
14:00	Heat-only background in the EDELWEISS detectors with NbSi TES sensor <i>Dr Hugues LATTAUD</i>	13:55 - 14:20
	Technical University Vienna	
	Stress Induced Background in Cryogenic Crystal Calorimeters <i>Daniel Mckinsey</i>	14:20 - 14:45
	Technical University Vienna	
	Low energy excess in MAGNETO R&D Data <i>Geon-Bo Kim</i>	14:45 - 14:50
	Technical University Vienna	
	Dark matter detectors and understanding of glasses <i>sergey pereverzev</i>	14:50 - 15:15
15:00	Technical University Vienna	
	Coffee break	15:15 - 15:40
	Technical University Vienna	
	Energy loss due to defect creation in solid state detectors <i>Matti Heikinheimo</i>	15:40 - 16:05
16:00	Technical University Vienna	
	Impact of crystal lattice defect quenching on coherent neutrino scattering experiments <i>thierry lasserre</i>	16:05 - 16:30
	Technical University Vienna	
	Discussion	
17:00	Technical University Vienna	16:30 - 17:30

Free-time program



Saturday evening

After the workshop, we plan to go to a Viennese restaurant & beer garden in the inner city for dinner. The restaurant is called "Zattl" and is located in Schottengasse 2, 1010 Vienna.

Sunday The organized group tour is canceled.

- Self-organized sightseeing in the morning?
- A larger group plans to go swimming in the afternoon, and everyone is welcome to join!

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Proceedings

There will be workshop proceedings, published together with the [IDM proceedings](#) in SciPost.

Proceedings

We will have peer-reviewed proceedings for IDM2022 published open access in SciPost. Proceedings for plenary talks are foreseen to have a page limit of 6 pages, parallel session talks, young scientist presentations and posters of 4 pages.

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Useful information

Wifi

eduroam

“tunetquest”: login credentials available at registration desk

Lunch

There is no organized lunch, but some suggestions for lunch places are on the pinboard at the reception desk!

FFP2 - Masks

Recommended, but not mandatory.



Organizers and workshop team



Alex



Felix



Florian



Margarita



Brigitte



Shubham



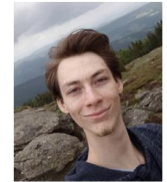
Leonie



Rituparna



Samir



Moritz

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