



**CASST 2025**

Introduction: Christine Kraus



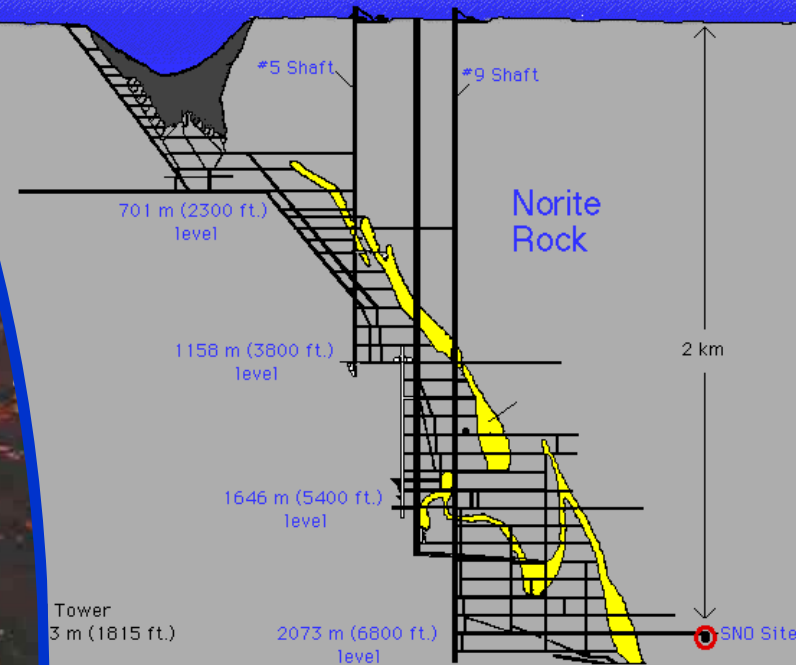
# LAND ACKNOWLEDGEMENT: SNOLAB



SNOLAB is located on the traditional territory of the Robinson-Huron Treaty of 1850, shared by the Indigenous people of the surrounding Atikmekshen Anishnawbek First Nation as part of the larger Anishinabek Nation. We acknowledge those who came before us and honour those who are the caretakers of this land and the waters.



# SNOLAB at Creighton Mine, Sudbury, ON, Canada



# SNOLAB - underground

## Cube Hall

DEAP-3600, PICO500, NEWS-G  
potential for large project

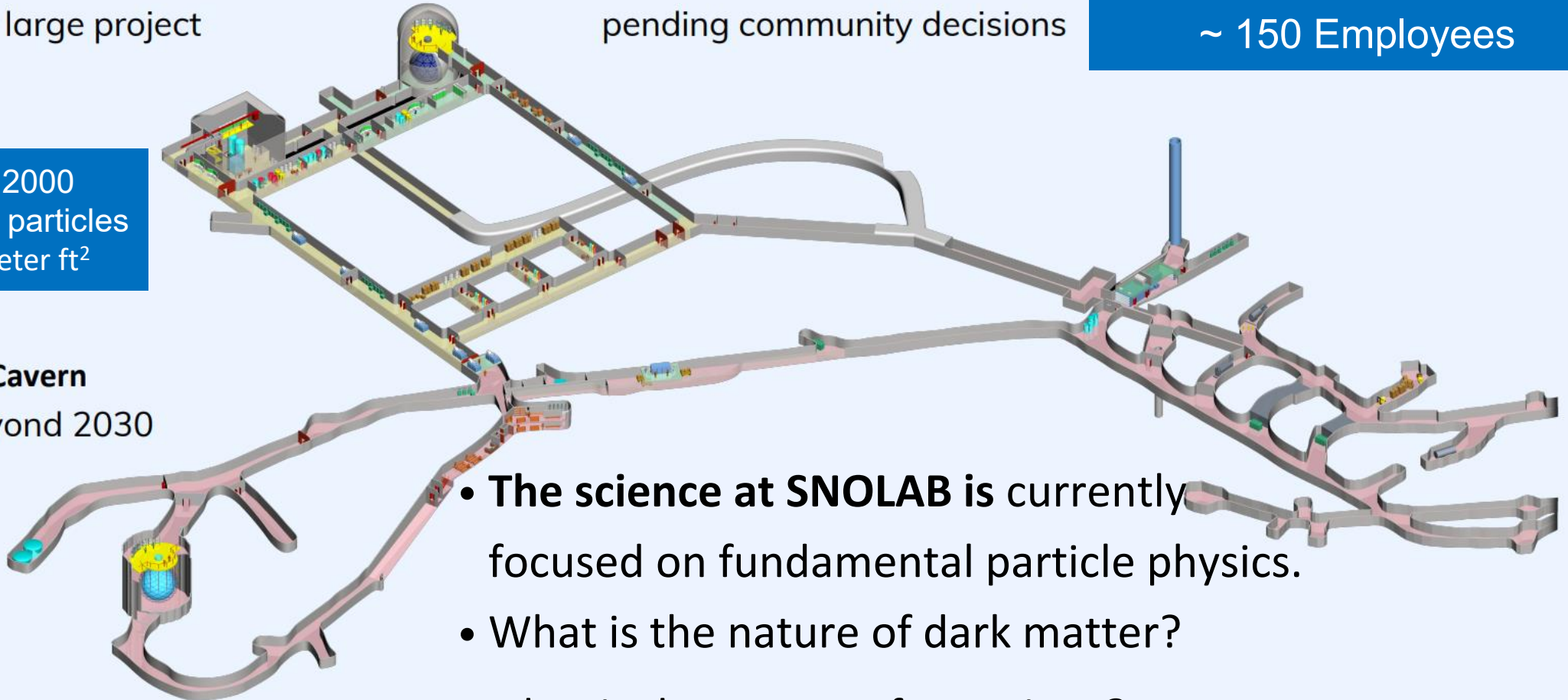
## Cryopit

Ton-scale 0vbb beyond 2030  
pending community decisions

5000 m<sup>2</sup> class 2000  
cleanroom (<2000 particles  
>0.5  $\mu$ m in diameter ft<sup>2</sup>)

## SNO Cavern

SNO+ beyond 2030



Over 1000 users worldwide  
11 active experiments  
128 Institutions  
23 Countries  
~ 150 Employees

- **The science at SNOLAB** is currently focused on fundamental particle physics.
- What is the nature of dark matter?
- What is the nature of neutrinos?





Arthur B. McDonald  
Canadian Astroparticle  
Physics Research Institute

---

# Canada's Astroparticle Physics Network







# Create, Network, Play!

[www.mcdonaldinstitute.ca/card-game](http://www.mcdonaldinstitute.ca/card-game)

# Astroparticle Physics Community Card Game



The Astroparticle Physics Card Game is an open-source, community-driven project. Everyone is invited to create cards for the game. Visit the link for rules and instructions for creating cards:  
<https://mcdonaldinstitute.ca/card-game/>





# Networking



Personnel cards can be created by submitting card information through this form: <https://forms.gle/2a2CXEgiG2Yx44yd9>

<https://mcdonaldinstitute.ca/card-game/>

---

# LOGISTICS

---

Washrooms, Fire alarm – stairs, parking

---

Quiet space – board room in C-309 → wellness month material

---

Pizza dinner (tomorrow going out)

---

Planetarium and Observatory → interest

---

Judges

---

Reminders about presentations

---



---

# SUSI

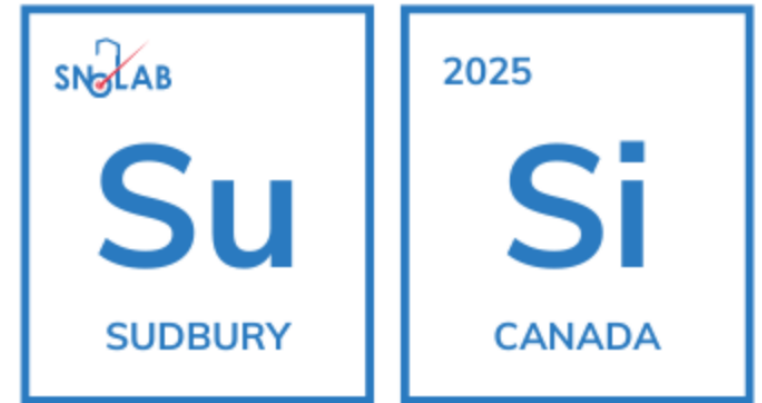
- The SNOLAB Underground Science Institute (SuSi) Lecture Program (SuSi2025) is a training and development program centred on academic lectures and activities delivered by experts in their fields. There will also be professional development opportunities. The 2025 SuSi program will focus on three topics: the dark cosmos, neutrino science, and quantum technology.
- The program launched in 2024 and had a very successful kickoff year. We are excited to continue the program in 2025 and welcome participants to SNOLAB!



---

# LOGO CONTEST

- CASST – **C**anadian **A**stroparticle **S**ummer **S**tudent **T**alk Symposium
- Now under SuSi umbrella
- Hand in tomorrow afternoon 3:00 pm (end of worktime)
- Work in **teams** (or alone)
- Be creative
- Can be combined with SuSi or standalone



**SNOLAB Underground  
Science Institute**