



# Welcome to the ISOLDE Workshop and Users Meeting 2022

Kindly sponsored by:



# Welcome back!

Around 125 participants on site and around 50 online, as of Monday lunchtime!

Lots of interesting scientific talks to come.

And fondue....Hotel Edelweiss, a few minutes walk from Cornavin.



# It's been a productive year!

>45 experiments plus some very useful machine development time.

Risking the sins of omission - *“highlights have included, but are not restricted to.....”* 😊

We'll hear more about some of these, and many other exciting scientific findings, later in the programme....

## **HIE-ISOLDE:**

Very productive running on ISS with (d,p) reactions using  $^{11}\text{Be}$ ,  $^{27}\text{Na}$ ,  $^{30}\text{Mg}$ ,  $^{110}\text{Sn}$ ,  $^{68}\text{Ni}$  and  $^{92}\text{Kr}$ .

Miniball is refurbished and restarted with Coulex of  $^{130}\text{Sn}$  and ended with e-  $\gamma$  coincidences in  $^{182}\text{Hg}$  without use of magnets for transport.

Novel helium targets used in SEC to measure Sn elastic scattering.

## **Low energy:**

VITO seeing exciting resonances K ions in DNA complexes.

TAS refurbished and fighting fit with measurements of neutron-rich Zn.

COLLAPS spins, moments and radii of Te isotopes near to  $^{132}\text{Sn}$ .

MIRACLS has been built up on LA2 getting ready for physics.

Solid-State Physics measurements of colour centres in diamond, multiferroic materials and perovskites.

CRIS measurement of Al into the Island of Inversion and currently running AcF in winter physics.

IDS several interesting runs early in the year, in particular, for Ac and Po decays....and had some unusual publicity...

*A month of Sn running in Sept/Oct!*

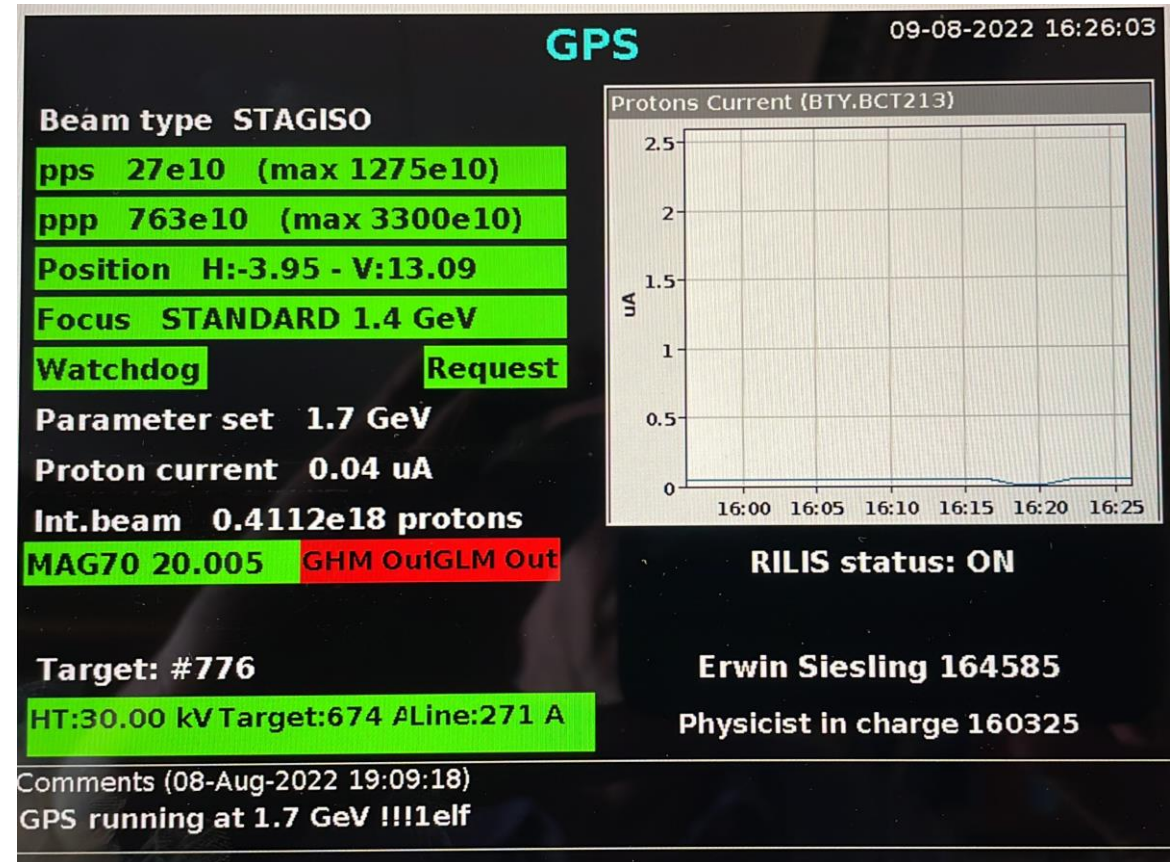




***Festival des Images* in Vevey, Summer 2022 by Thomas Struth, German photographer.**

# There have been some interesting VISTARS...

Tests made to compare yields of isotopes at proton energies of 1.4 and 1.7 GeV during machine development time to GPS at reduced currents.



# Proposed Decision Timeline for the ISOLDE Improvement program

- **ISOLDE Mini-workshop on Consolidation and Improvement program (October 2022)** ✓
  - To collect needs for consolidation and improvement of the facility based on physics needs and facility life-time
- **ISCC (November 2022)** ✓
  - To state collaboration clear interest and support to the improvement program, in particular to the 2 GeV case
- **Strategy presentation to JAPW of integrated improvement program (December 2022)**
  - To define overall project to coordinate consolidation and improvement needs
- **RB (December 2022)**
  - To approve proposed roadmap for final approval
- **IEFC: IBDRS and 2 GeV technical implementation proposal (January 2022)**
  - To endorse technical solutions and timeline for implementation
- **INTC (February 2023)**
  - to re-state on physics program and interest on 2 GeV
- **RB (March 2023)**
  - Input from INTC on physics thanks to proposed improvement program
  - Conclusions from IEFC about technical implementation
- **MTP 2023**
  - ATS to put forward consolidation and improvement program with horizon between 2023 and post-LS3 with staged approach

Consolidation and improvements up to, during and post-LS3:

- EBIS solenoids.
- Reducing full thermal cycles of SC linac to protect cavities and reduce conditioning time.
- Improvements to fire safety.
- 2-GeV delivery.
- Beam-dump replacement.
- 5th Cryomodule.
- And many other items....

In a very difficult financial climate...





# EURO-LABS has started!



Hopefully this has been a relatively seamless transition on 1st September from the ISOLDE Collaboration Support – thanks in no small way to Jenny!

A heads up that the application form/process may change as EURO-LABS leadership have a desire to harmonise the access across all the participating facilities.

There are obligations....but these are becoming universal!

(i) Open Access Publications – CERN requirement too! [open-access-questions@cern.ch](mailto:open-access-questions@cern.ch)

(ii) Acknowledge EURO-LABS support: “This project has received funding from the European Union’s Horizon Europe Research and Innovation programme under Grant Agreement No 101057511.”

(iii) Open Data – also new CERN policy in Oct 22!

Working with ISCC and INTC on a policy for the collaboration and a way to collect data management plans without incurring a huge amount of additional work.

# H&S

## Recent incident:

- Electrical shock, luckily with low current.
- Investigation uncovered a separate issue with three-phase wiring that was potentially very dangerous.
- Significant period of downtime associated with inspections, reviews and actions.

## Reminders:

- Update safety files regularly.
- Action recommendations from safety inspections quickly.
- Reminder concerning PPE required for the ISOLDE Hall.

## Positives:

- Team involved engaged well with the difficult process and significant issues have been resolved.
- Developed very good collaboration with EP-DSO.
- Laura Rowlands and James Devine available for any discussions or advice.



James



Laura



# Almost over....

## Email lists:

GDPR issues mean that Jenny can't add new users to the email list – users need to sign up themselves...

It is easy to do it....

- (i) search for e-groups CERN on Google.
- (ii) search for “isolde”.
- (iii) add to yourself to ISOLDE Information.

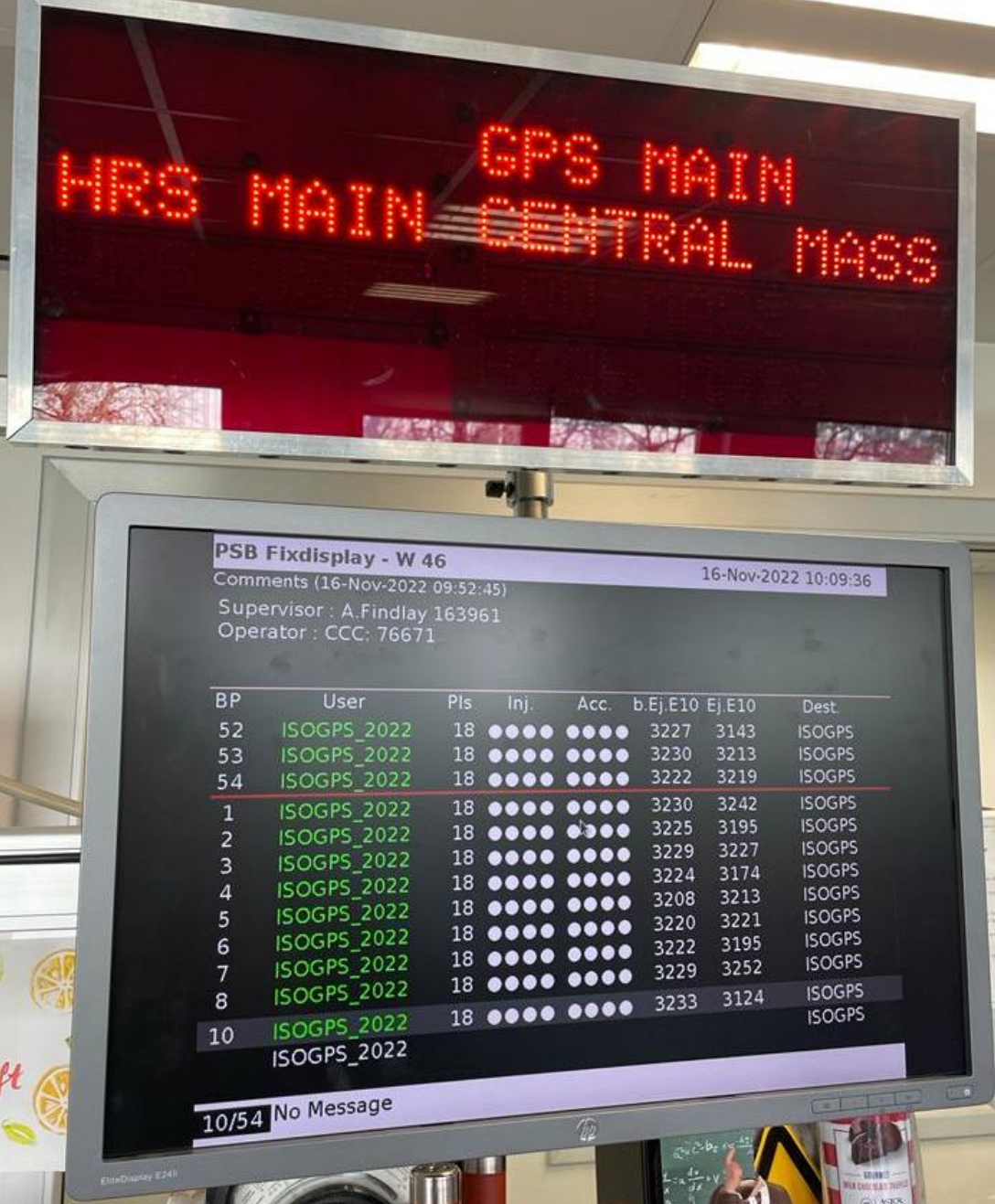
## New collaboration member country:

## Started the search for a new physics coordinator:

<https://jobs.smartrecruiters.com/CERN/743999865181730-isolde-physics-coordinator-ep-sme-is-2022-113-ld->

Please let any potential candidates know – deadline in January.





# One last interesting VISTAR....

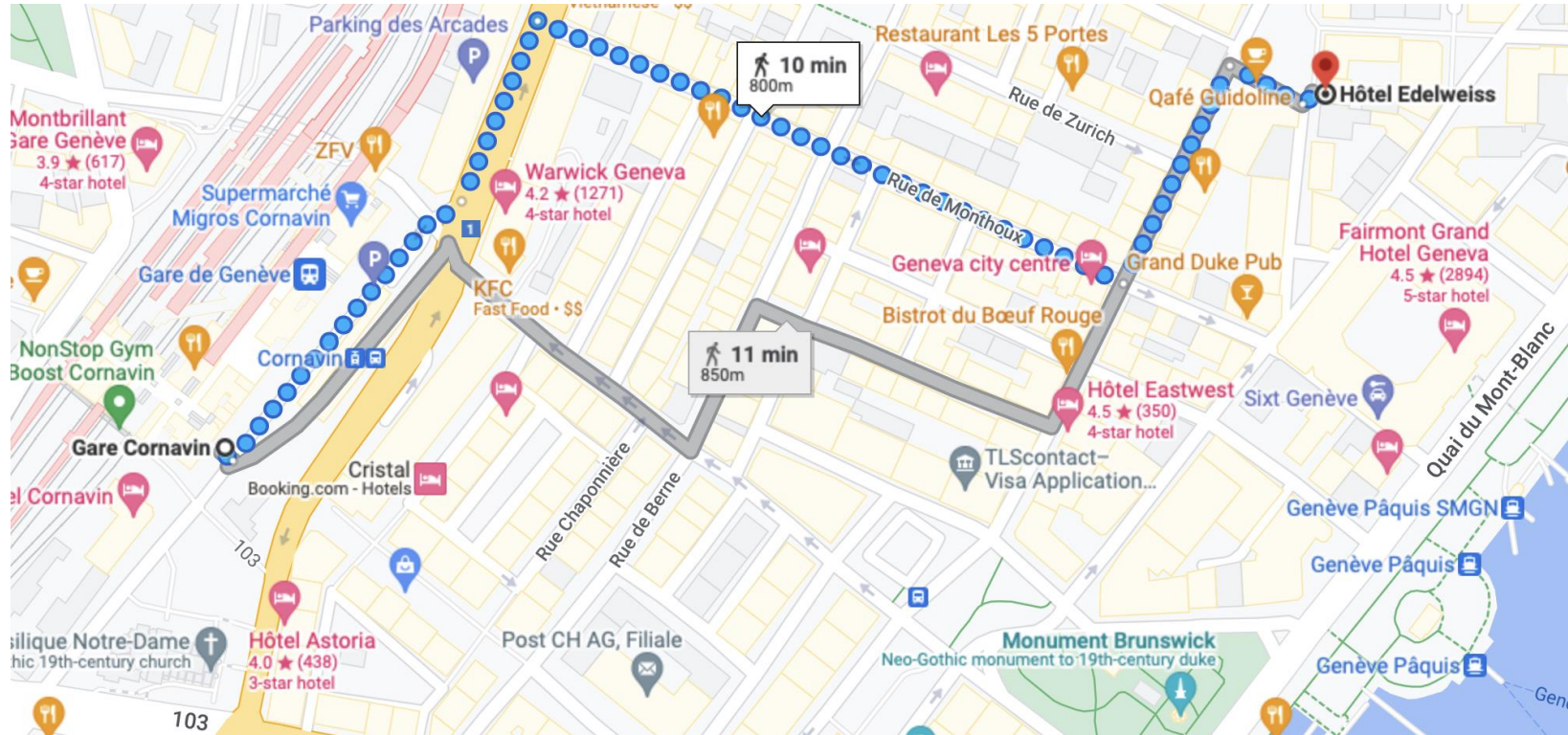
....and now for some science.



[home.cern](http://home.cern)

## 7pm Hotel Edelweiss - Place de la Navigation 2 bis, 1201 Genève

Take an 18 tram from CERN – every ten minutes – journey time 24 minutes - 3 CHF ticket one way.  
5-10 minute walk to the hotel from Cornavin – several crossings so luck with the lights makes a difference!



You need to sit on table according to the type of fondue you ordered – chance meet some new people!

WARNING – I believe the last tram back to CERN from Cornavin **00:29 – but check me!**