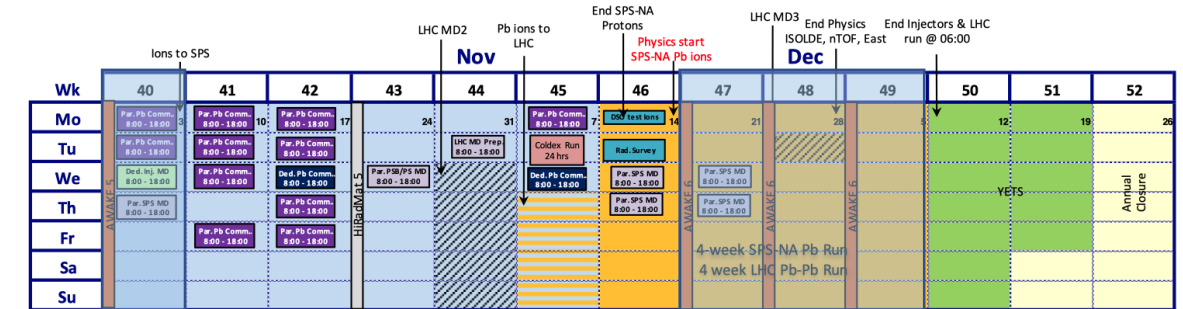
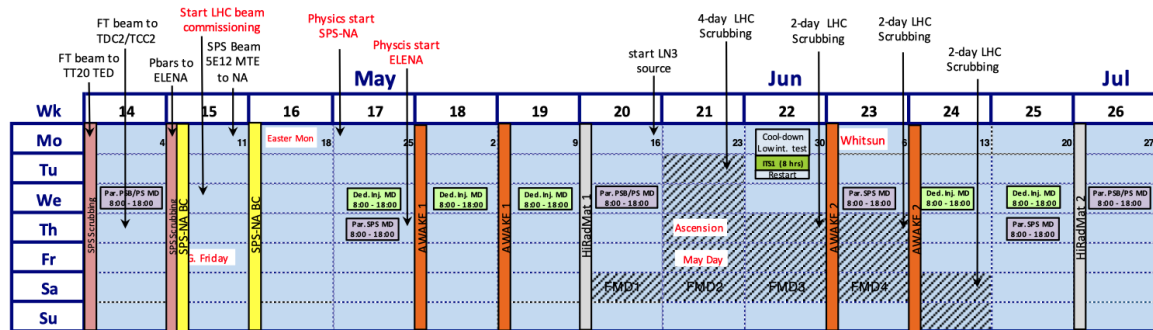
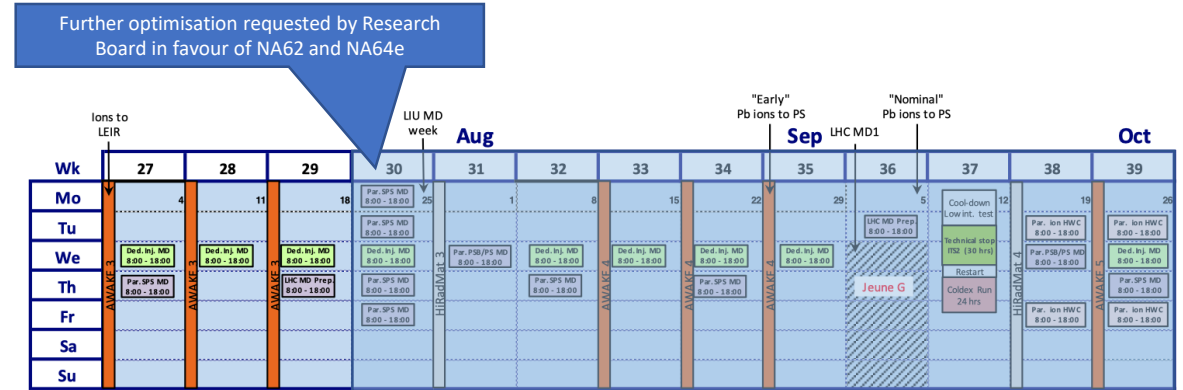
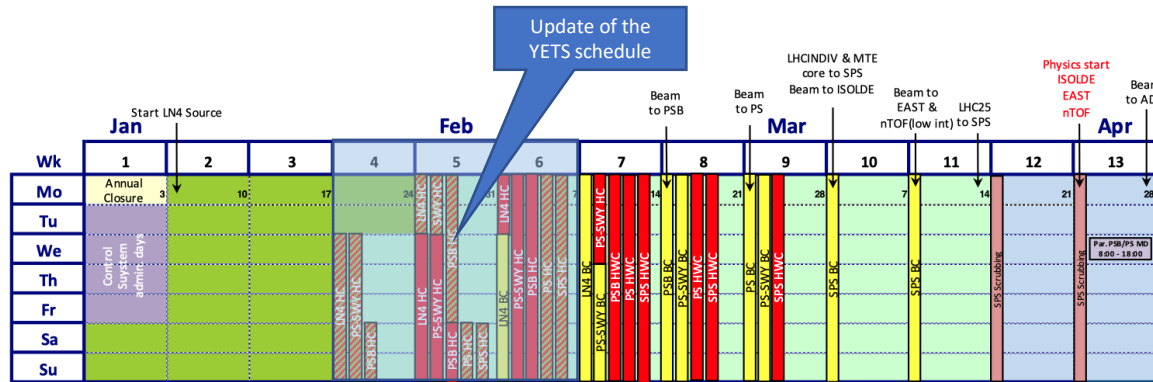


INTC 70: ISOLDE coordinator presentation



- 2022 schedule and feedback from first runs
- Around the hall: Space and new setups – a growing challenge
- First dates for 2023
- Training

Accelerator schedule for 2022



- ISOLDE physics start: March 28th
- End of protons, not necessarily of physics: November 28th (but short period for winter physics).
- 245 days of physics
- Very high demand throughout the complex. Number of supercycles can be limited at times: change of supercycles is out of booster's direct control

| Experimental facility | Start Physics | End Physics | Duration 2022 [days]* | Duration 2018 [days]* |
|-------------------------------|---------------|-------------|-----------------------|-----------------------|
| ISOLDE | 28.03.2022 | 28.11.2022 | 245 | 217 |
| nTOF | 28.03.2022 | 28.11.2022 | 245 | 224 |
| PS East Area | 28.03.2022 | 28.11.2022 | 245 | 224 |
| SPS North Area p ⁺ | 25.04.2022 | 14.11.2022 | 203 | 217 |
| ELENA (AD) | 28.04.2022 | 12.12.2022 | 228 | 196 |
| SPS North area Pb ions | 14.11.2022 | 12.12.2022 | 28 | 28 |
| AWAKE | 02.05.2022 | 12.12.2022 | 84 | 91 |
| HiRadMat | 16.05.2022 | 31.10.2022 | 35 | 25 |

*TS, MD time, etc. not deducted

Beam requests and schedule for 2022

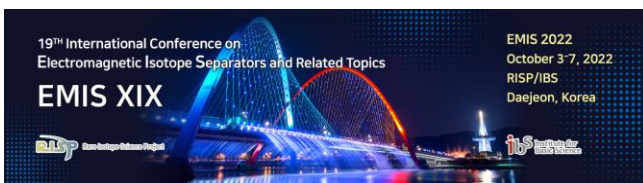
As can be seen: very high demand, but more competing opportunities also exist (not the case last year) e.g. conferences, experiments elsewhere, holidays(!)

Miniball is back in 2022, but no T-REX in 2022. Delays with DAQ mean stable beam only from September onwards.

Almost 50% of the shift request for HIE ISOLDE but only 50% of the running period possible.

Issue with the 7gap (and delay with Miniball) has resulted in August being reshuffled with focus on beam development and low energy

| Row Labels | Count of Experiment | Sum of Requested shifts |
|--------------------|---------------------|-------------------------|
| + Biophysics | 1 | 5 |
| + COLLAPS | 2 | 22 |
| + CRIS | 6 | 61 |
| - HIE | 32 | 394 |
| ACTAR | 1 | 21 |
| ISS | 10 | 104 |
| Miniball | 17 | 184 |
| XT03 | 1 | 23 |
| XT03: Edinburgh | 1 | 42 |
| XT03: SEC | 2 | 20 |
| + IDS | 10 | 76 |
| + IDS | 1 | 15 |
| + IDS / ISOLTRAP | 1 | 6 |
| + IDS/TAS | 2 | 7 |
| + IDS/TISD | 1 | 2 |
| + In-source/IDS | 2 | 10 |
| + ISOLTRAP | 1 | 8 |
| + Medical | 3 | 12 |
| + MIRACLS | 3 | 0 |
| + SSP | 26 | 57.5 |
| + TAS | 2 | 37 |
| + TISD | 10 | 27 |
| + VITO | 4 | 23 |
| + Wisard | 1 | 24 |
| + ISOLTRAP/TISD | 1 | 31 |
| Grand Total | 109 | 817.5 |



ISOLDE Schedule 2022: weeks 12 - 30

| GPS schedule 2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----|----------------|-------------|------------|-------------------|------------|-------------------------|---------------|--------------------------|--------------|----|-------------|---------------|---------|---------------|------------|----|------------|--|------------|--|--|--|------------|--|------------|--|------------|--|------------|--|
| March | | April | | | | | May | | | | | June | | | July | | | | | | | | | | | | | | | | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | | | | | | | |
| | 21 | 28 | 4 | 11 | 18 | 25 | #534 Sn VDS 2 | 9 | 16 | 23 | 30 | Pentecost 6 | 13 | 20 | 27 | 4 | 11 | 18 | 25 | | | | | | | | | | | | |
| | | | #756 UC q n | IS685 | | | #734 UC VD7 (TBC) | Tech Stop | | | | | #758 UC q n | | IS687 | | | | | | | | | | | | | | | | |
| | | IS688 (nights) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| #627 Ta | | | | #634 LIST | | | | #752 LIST | Ascension | | | | | | | | | | | | | | | | | | | | | | |
| | | #734 UC VD7 | | Good Fri | | | | | CERN Holiday (for May 1) | TBC | | | | | | | | | | | | | | | | | | | | | |
| | | | | | LOI 219 (LOI 217) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | IS691 | IS685 | | | | IS647 IS652 IS679 IS703 | IS659 IS668 | | IS664 LOI216 | | | IS668 + Colls | | IS671 + tests | TAS IS684 | | | (TBC) IS677 11Be @ 9-10 MeV/u (Str Foil) | | | | | | | | | | | | |
| RILIS : Dy | | RILIS : Dy | | RILIS : Cd | | RILIS : Cd | | RILIS : Ti/Tb | | | | 111Cd | | 8He/6He | | RILIS : Ac | | RILIS : Ac | | RILIS : Sn | | | | RILIS : Zn | | RILIS : Zn | | RILIS : Be | | RILIS : Be | |

| HRS schedule 2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----|--------------|---------|------------|----|------------|-------------|------------|----|-----|----|------------|--------------|------------|--------------|------------|----|------------|--|------------|--|-----|--|--|--|--|--|--|--|
| March | | April | | | | | May | | | | | June | | | July | | | | | | | | | | | | | | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | | | | | |
| | 21 | #654 UC W 28 | 4 | 11 | 18 | 25 | | | | | | | #755 UC n 30 | 6 | #752 LIST 13 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | #751 UC VD5 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | #753 UC | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | RILIS : AI | | RILIS : AI | | RILIS : Te | | RILIS : Te | | 49K | | RILIS : Ag | | RILIS : Ag | | RILIS : Po | | RILIS : Po | | RILIS : Sb | | 49K | | | | | | | |



Start of protons for physics: 28 March
End of protons for physics: 28 November

| | | | | | |
|---------------|--------------|------------------------------|-------------|-------------|-----------|
| Target change | CERN holiday | Setting up/proton scan/field | Physics HPS | Physics GRS | RILIS run |
|---------------|--------------|------------------------------|-------------|-------------|-----------|

KJ: 02.05.22

So far 20 experiments have run with ~187 shifts delivered for low energy physics (and some beam development)

| April | | | | | May | | | | | June | | | | | July | | | | | | | | | | | | |
|------------|----------------|-------------|-----------|-------------------|-------------------------|---------------|------------------|---------------|------------------------------------|-------|---------------|---------|---------------|------------|-------|---------------|----|--|--|------------|--|------------|--|------------|--|------------|--|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | | | |
| 21 | 28 | 4 | 11 | 18 | 25 | #534 Sn VD5 2 | 9 | 16 | 23 | 30 | Pentecost 6 | 13 | 20 | 27 | 4 | 11 | 18 | 25 | | | | | | | | | |
| | | #756 UC q n | IS685 | | | | #734 UCVD7 (TBC) | Tech Stop | | | | | #758 UC q n | | IS687 | | | | | | | | | | | | |
| #627 Ta | IS688 (nights) | | #634 LIST | | | | | | Ascension CERN Holiday (for May 1) | | | | | | | (TBC) #761 UC | | | | | | | | | | | |
| | #734 UC VD7 | | Good Fri | | | | | | | | | | | | | | | | | | | | | | | | |
| | IS691 | IS685 | | LOI 219 (LOI 217) | IS647 IS652 IS679 IS703 | IS659 IS668 | | | IS664 LOI216 | | IS668 + Colls | | IS671 + tests | TAS IS684 | | | | (TBC) IS677 11Be @9-10MeV/u (Str Foil) | | | | | | | | | |
| RILIS : Dy | | RILIS : Dy | | RILIS : Cd | | RILIS : Cd | | RILIS : Ti/Tb | | 111Cd | | 8He/6He | | RILIS : Ac | | RILIS : Ac | | RILIS : Sn | | RILIS : Zn | | RILIS : Zn | | RILIS : Be | | RILIS : Be | |

| HRS schedule 2022 | | | | | | | | | | | | | | | | | | |
|-------------------|-----------------|---------|------------|------------|------------|-------------|-----|-----------|------------------------------------|--------------|------------|----------------|------------|----|------------|------|----|----|
| March | | | April | | | | May | | | | | June | | | | July | | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 21 | #654 UC W 28 | 4 | 11 | 18 | 25 | 2 | 9 | 16 | 23 | #755 UC n 30 | 6 | #752 LIST 13 | 20 | 27 | 4 | 11 | 18 | 25 |
| | | | | | | | | Tech Stop | | | | | | | | | | |
| | | #753 UC | | | | #751 UC VD5 | | | | | | | | | | | | |
| | | | Good Fri | #754 UC n | | | | | Ascension CERN Holiday (for May 1) | | | | | | | | | |
| | MD + VITO tests | | | | | | | | | | | | | | | | | |
| | | | IS700 | | IS667 | | | IS666 | | IS660 | | IS456 & LOI225 | | | | | | |
| | | | RILIS : Al | RILIS : Al | RILIS : Te | RILIS : Te | | 49K | | RILIS : Ag | RILIS : Ag | RILIS : Po | RILIS : Po | | RILIS : Sb | 49K | | |

Feedback from runs

- As Joachim mentioned today: relatively few requests for “standard” target units e.g. no UC Ta on GPS until 11th week of physics...
- LIST is now becoming a highly requested unit.
 - Needs considerable setting up time and expertise.
 - Difference in behaviour between GPS and HRS: loss of time structure in PI-LIST mode due to the ISCOOL. (solution would be upgrade of beamgates)
 - RILIS can't be considered “standard” operation for such runs either: extra resources for personnel would be useful. Some fine-tuning of schedule has been required
- Quartz lines also being requested more frequently, still some development work needed e.g. water leak developed during Cd run.
- Heavy period for IDS, but strong local team has coped well.
- Position of proton beam has been an issue especially for neutron convertors: needs to be confirmed in future commissioning runs at beginning of year.
- Reuse of previous targets has been mostly successful: vacuum leak after 5e18 protons not seen as before. Inevitably some failures....

MEDICIS and the Irradiation station

- Relatively quiet period for MEDICIS
- Some irradiations have been made
- The issue with the proton beam position is of particular relevance for MEDICIS.
- GPS irradiation station has been producing much higher activities.
- MEDICIS frontend has been useful for checking some used ISOLDE targets.

| ISOLDE Week 24 2022 | | | GPS | HRS | CA0 | MEDICIS | GPS IS | p's | Visits | other |
|---------------------|------------|-------|--|---|-----|---|-----------------|-----|--------|---|
| Monday | 13/06/2022 | AM | 1000. Retrieval of 724M | | | | | | | |
| | | PM | surface collections possible when no target changes ongoing. | 1400 #752 LIST | | AM test of Montec toolbox PM #724M to HRS irradiation point | 724M until 1000 | | | PM HV work by Christophe Mistrot |
| | | night | | | | | | | | |
| Tuesday | 14/06/2022 | AM | surface collections possible. | stable setup | | | | | | |
| | | PM | | | | | | | | |
| | | night | | | | | | | | |
| Wednesday | 15/06/2022 | AM | GPS target to be cooled to conservative value | stable setup continues | | | | | | |
| | | PM | | (if ready) p+ scan | | | | | | AM ISOLDE stagiaires. 1400 Protocol visit from TENDMAK (Turkish Energy Nuclear and Mineral research agency); guide KJ |
| | | night | | stable beam to setups (else) p+ scan and yields | | | | | | |
| Thursday | 16/06/2022 | AM | | IS456 LOI225 | | | | | | |
| | | PM | | IS456 LOI225 | | | | | | |
| | | night | | IS456 LOI225 | | | | | | |
| Friday | 17/06/2022 | AM | | IS456 LOI225 | | | | | | |
| | | PM | | IS456 LOI225 | | | | | | |
| | | night | | IS456 LOI225 | | | | | | |
| Saturday | 18/06/2022 | AM | | IS456 LOI225 | | | | | | |
| | | PM | | IS456 LOI225 | | | | | | |
| | | night | | IS456 LOI225 | | | | | | |
| Sunday | 19/06/2022 | AM | | IS456 LOI225 | | | | | | |
| | | PM | | IS456 LOI225 | | | | | | |
| | | night | | IS456 LOI225 | | | | | | |
| Monday | 20/06/2022 | AM | | IS456 LOI225 | | | | | | |
| | | PM | | IS456 LOI225 | | | | | | |
| | | night | | IS456 LOI225 | | | | | | |

Summary of week: IS668 runs with Ga until Monday morning. Then RILIS will switch and there are several target manipulations on the irradiation station and for HRS. GPS can continue with surface collections until Tuesday at least. Target will stay online, please cool it down while not in use. HRS setup on Tuesday and Wednesday. Proton scan and yields on either Wednesday or Thursday morning. Physics from Thursday evening onwards.

GPS: #751 UC Target for Ga run. Setup at 30kV. Beam to GHM for emission channelling of Ga. Other surface collections possible in GLM until Tuesday or Wednesday

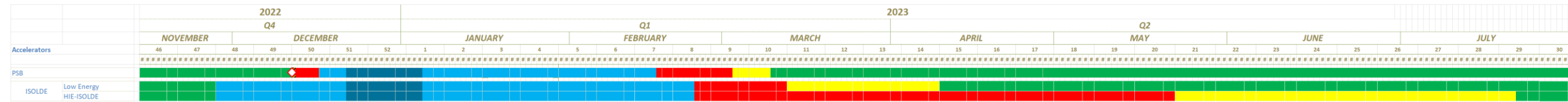
HRS: S. #752 UC LIST. HT = 40kV (TBC), in bunching and transmission mode. Po beams to LA1, IDS and CRIS. Protons on-target

Protons: NORMGPS up to 2uA until Tuesday. NORMHRS up to 2uA from Thursday onwards.

Operations responsible: Simon (165711) until Tuesday 14th June. Emiliano (162562) until June 21st.

For more details about visits: <https://publicoutreach.cern.ch/outreach/panel#agenda/today>
 ISOLDE Daily meeting: 09:15 Monday, 08:45 Tue-Fri via Zoom: <https://cern.zoom.us/j/98894210347?pwd=UWlSMkRkVkVlcWVWYkYtNOG5nMkFNdD09>

ISOLDE: draft planning for 2023 (still at discussion stage)



- **Key Dates:**

- Low energy
 - Hardware Commissioning from the 24/02/2023 to the 12/03/2023
 - Beam Commissioning from the 13/03/2023 to the 09/04/2023
 - Beam for ISOLDE physics: 10/04/2023
- HIE-ISOLDE
 - Hardware Commissioning from the 24/02/2023 to the 21/05/2023
 - Beam Commissioning from the 22/05/2023 to the 19/07/2023
 - Beam for HIE physics: 20/07/2023

- **Relevant information**

- Despite being in the YETS maintenance and installation works period HIE-ISOLDE requires stable Cryo plant cooling conditions up to the end of week 50 (16/12/2022 for 2 wks controlled warm up of the Cryo Modules)
- Start of hardware commissioning in week 8 for the HIE-ISOLDE depends on the completion of cooling maintenance
- Start of hardware commissioning in week 8 for the low energy ISOLDE depends on the completion of ventilation works
- Beam from PSB to Low Energy ISOLDE in the beginning of week 13 (27/03/2023 for 2wks setting up BTY and SEMGRID tests)

Prepared with E. Siesling, J. Vollaire and J. A. Rodriguez

Reminder of backlog
(including INTC69,
but not the running
period this year)

| Row Labels | Count of Count | Sum of Shifts remaining before 2022 till end of Run3 |
|-------------------------|----------------|--|
| biophysics | 1 | 9.5 |
| COLLAPS | 4 | 39 |
| Collections: 108Ag | 1 | 30 |
| Collections: 163Ho | 1 | 5 |
| CRIS | 7 | 86.5 |
| Gandalph | 1 | 8 |
| Gandalph/CRIS | 1 | 6 |
| HIE ISOLDE | 35 | 548 |
| ISS | 11 | 135 |
| ISS/Miniball | 1 | 17 |
| Miniball | 17 | 275 |
| Prototype | 1 | 0 |
| SEC | 1 | 23 |
| XT03 | 1 | 23 |
| XT03: Actar | 1 | 21 |
| XT03: Corset | 1 | 12 |
| XT03: Edinburgh | 1 | 42 |
| IDS | 15 | 170.5 |
| IDS/ISOLTRAP | 1 | 6 |
| ISOLTRAP | 5 | 43 |
| Medical physics | 2 | 11 |
| MIRACLS | 1 | 17 |
| SSP | 11 | 97.5 |
| TAS | 4 | 53 |
| TISD | 8 | 37 |
| TISD/IDS | 1 | 9 |
| Travelling Setup | 2 | 17 |
| Travelling Setup; ECSLI | 1 | 0 |
| VITO | 1 | 28 |
| WISARD | 1 | 24 |
| TISD/Miniball | 1 | 4 |
| TISD/TDPAC | 1 | 4 |
| Grand Total | 106 | 1253 |

INTC 70 summary

| | | |
|---------------------------|-----------|------------|
| ISOLDE | 13 | 232 |
| Decay spectroscopy | 3 | 55 |
| Addendum | 1 | 4 |
| Letter of Clarification | 1 | 23 |
| Proposal | 1 | 28 |
| HIE | 4 | 62 |
| Letter of Clarification | 1 | 21 |
| Proposal | 3 | 41 |
| Laser Spectroscopy | 3 | 49 |
| Letter of Intent | 1 | 16 |
| Proposal | 2 | 33 |
| Mass spectrometry | 1 | 18 |
| Proposal | 1 | 18 |
| Proton upgrade | 1 | 28 |
| Proposal | 1 | 28 |
| Solid state | 1 | 20 |
| Proposal | 1 | 20 |

<https://indico.cern.ch/event/1162031/>



CERN-INTC-2020-001 / INTC-I-208
06/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

Upgrade of the UHV-system ASPIC for the investigation of surfaces and two-dimensional materials by ultra-low energy implantation and deposition of radioactive probe atoms



CERN-INTC-2020-011 / INTC-I-212
10/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

MULTIPAC-Setup for γ - γ Perturbed Angular Correlation Experiments in Multiferroic (and Magnetic) Materials

January 8th 2020

New setups/space in the hall



CERN-INTC-2020-003 / INTC-I-209
08/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

PUMA: antiProton Unstable Matter Annihilation

January 6, 2020



CERN-INTC-2020-012 / INTC-I-213
10/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

Research plans for the laser-polarization beamline VITO at ISOLDE

8 January 2020



CERN-INTC-2020-007 / INTC-I-210
08/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

Upgrade and scientific programme of *LUCRECIA*, the Total Absorption Spectrometer at ISOLDE

Jan - 8th - 2020



CERN-INTC-2020-013 / INTC-I-214
13/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

(Following HIE-ISOLDE Letters of Intent [I-119](#), [I-191](#), [I-194](#), [I-195](#) and Memorandum [INTC-M-020](#))

The SpecMAT active target

January 13, 2020



CERN-INTC-2020-008 / INTC-I-211
08/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

eMMA - Development of an emission Mössbauer apparatus at ISOLDE for the investigation of magnetic materials

[8.01.2020]



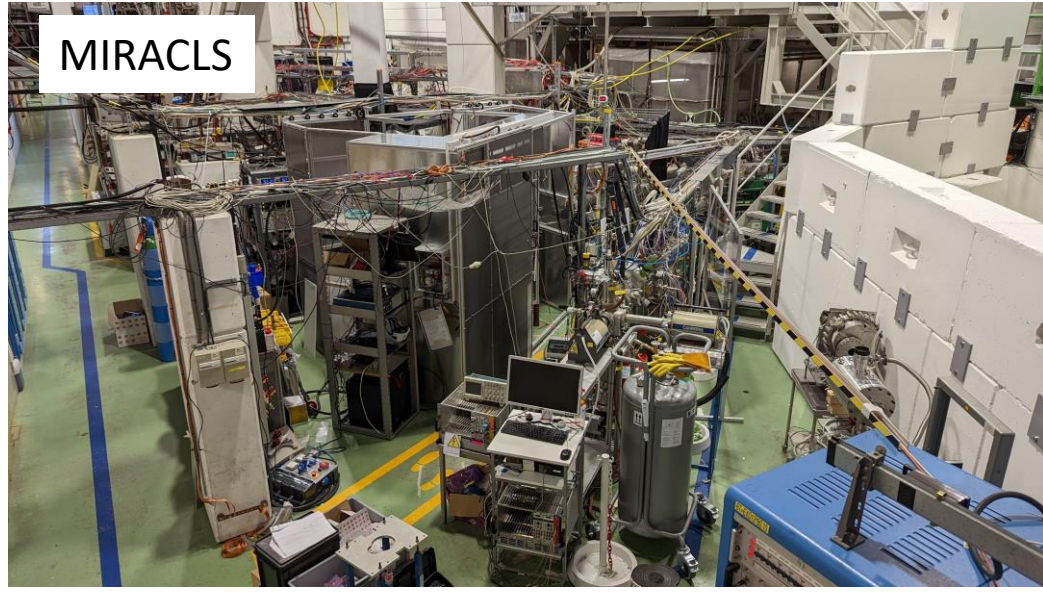
CERN-INTC-2020-015 / INTC-I-215
13/01/2020

MIRACLS- the Multi Ion Reflection Apparatus for Collinear Laser Spectroscopy of radionuclides

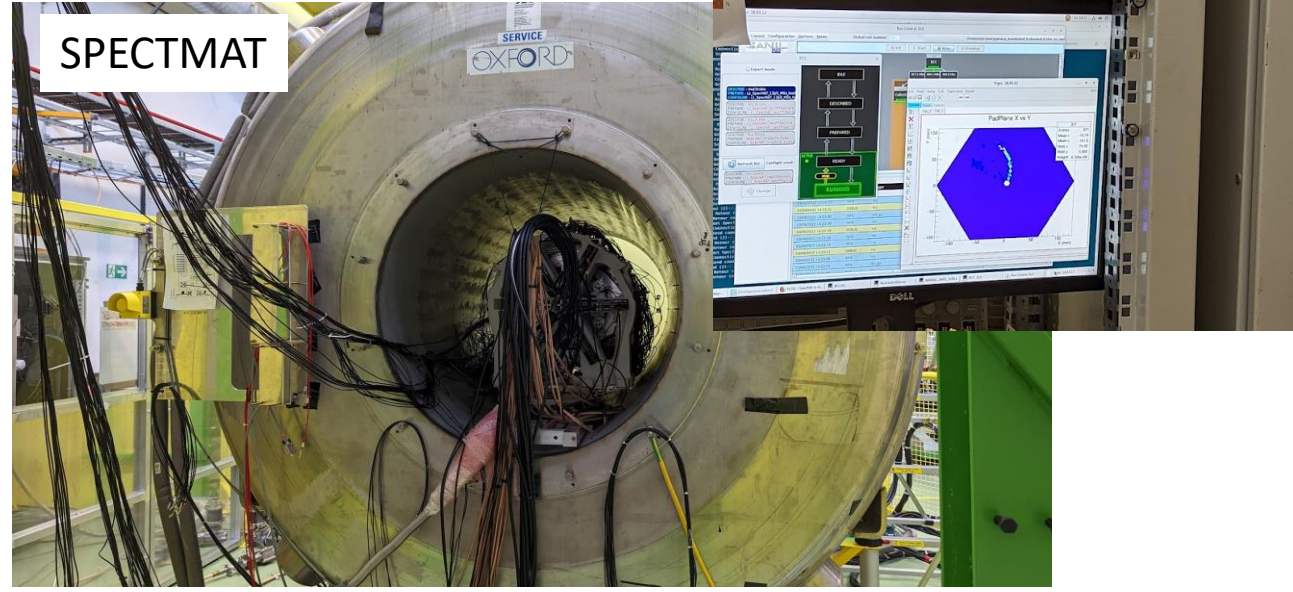
January 11, 2020

New/Updated setups: challenge of space in the ISOLDE hall

MIRACLS



SPECTMAT



TAS

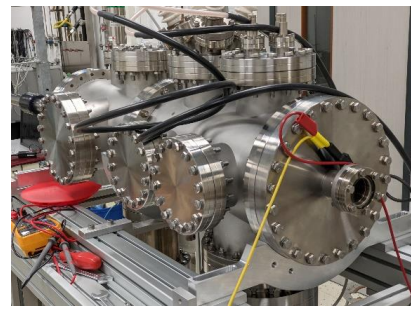


MULTIPAC



ASPIC/ASCII

Ultra-low energy implanter
Control of probe isotopes



EMMA





Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

PUMA: antiProton Unstable Matter Annihilation

January 6, 2020

First meeting PUMA@ISOLDE

Wednesday 1 Jun 2022, 15:00 → 16:30 Europe/Zurich
508/1-001 (CERN)

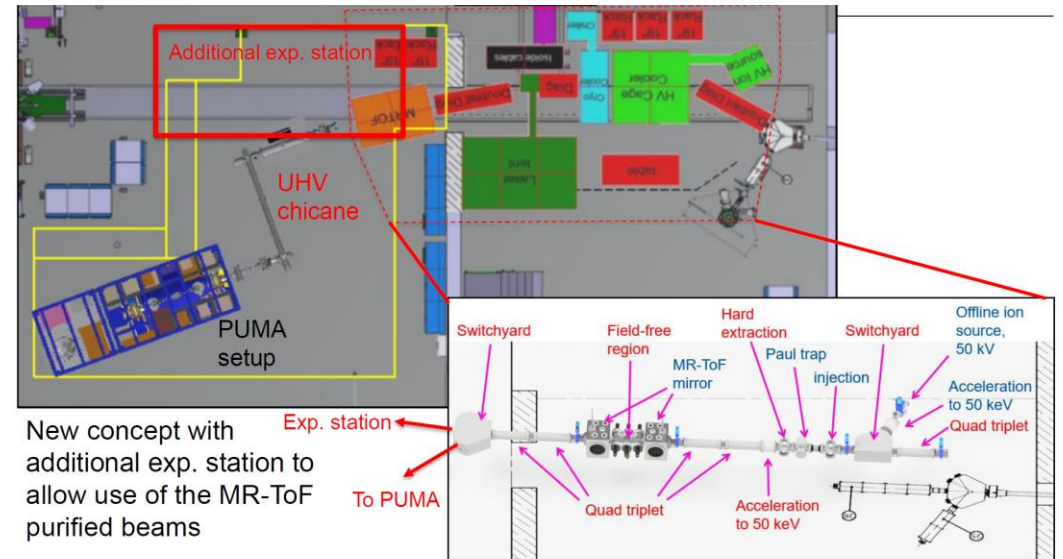
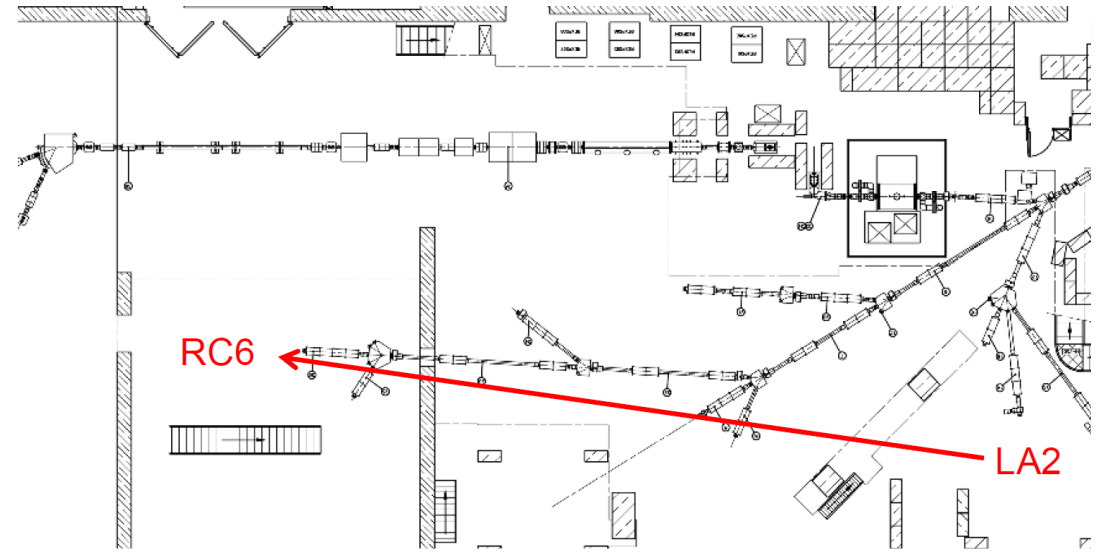
Videoconference First meeting PUMA@ISOLDE Please log in

There are minutes attached to this event. [Show them.](#)

| | | | |
|---|---------|--|-----|
| 15:00 | → 15:10 | Introduction | 10m |
| Speakers: Oliver Aberle (CERN), Erwin Siesling (CERN) | | | |
| 15:10 | → 15:30 | PUMA - An overview | 20m |
| Speaker: Alexandre Obertelli | | | |
| PUMA_ISOLDE_Jun... | | | |
| 15:30 | → 15:50 | Discussion on project structure | 20m |
| PUMA@ISOLDE PM... PUMA@ISOLDE PM... | | | |
| 15:50 | → 16:10 | Miracle | 20m |
| Speaker: Stephan Malbrunot (CERN) | | | |
| PUMAmeeing_202... | | | |

3.2-pre Help | Contact | Terms and conditions | URL Shortener

Relocation MIRACLS: 2022 – early 2023



New concept with additional exp. station to allow use of the MR-ToF purified beams

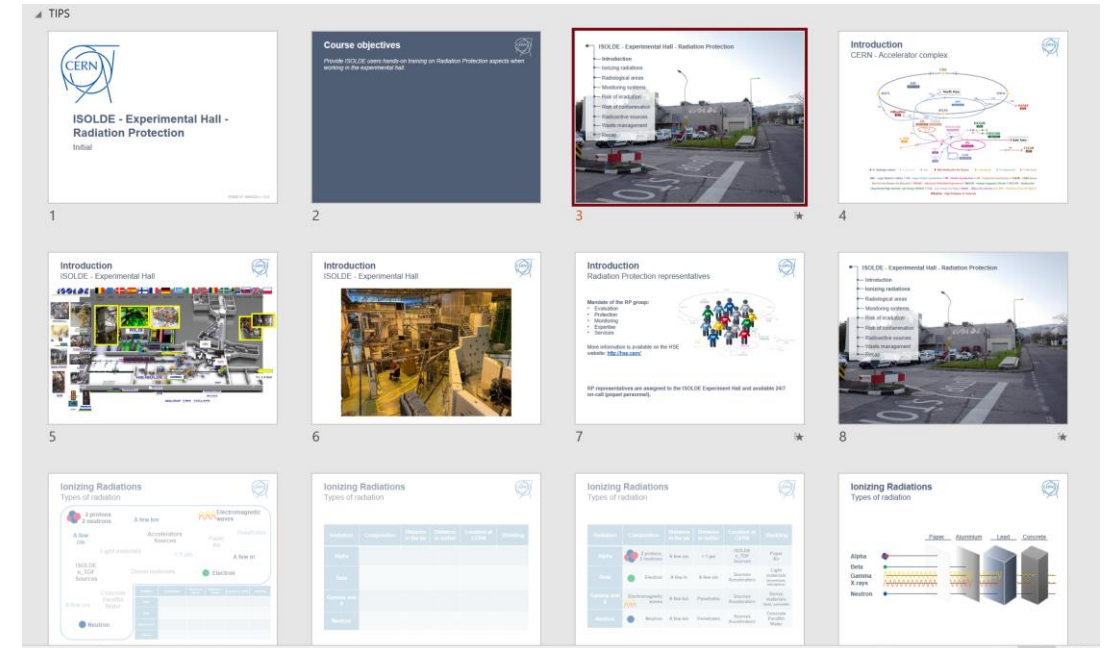
Training

- In addition to the (ever-growing) number of online courses...
- Hands-on RP and Electrical training
- 15 day deadline before scheduled course is cancelled. (has led to issues last year)
- New EP-wide electrical course for all users/staff who need to work in an experimental area (legal requirement)
- Both will take place on Tuesday but time has increased:
 - EP course 0830 till 1230
 - RP course 1400 till 1630
- Availability of Electrical course not very stable. **Taking all online courses will grant electrical training ranks (for the moment at least).** Long term users based at CERN should try to take it when possible.

Ad hoc sessions are available, but (especially in running period!!) are difficult to manage

Discussion with safety training ongoing to see if the hands-on sessions are still required for the majority of users (RP)

For laser users: new LSSO (laser safety officer) course will need to be followed and be appointed for local representatives of laser labs.



In LMS:

ISOLDE - Experimental Hall - Radiation Protection - Handling (Covid-19)

Electrical Safety - Working in EP experiments

Publications: Open access

The screenshot shows the CERN website header with the logo and navigation menu. The main content area features a news article titled "CERN revises its Open Access Policy" with a sub-headline "The updated policy reinforces the Organization's position on open access and clarifies the status of CERN-affiliated corresponding authors". The article is dated 8 JUNE, 2021. The text discusses the approval of a revised version of the CERN Open Access Policy by Director-General Fabiola Gianotti on 25 May 2021. It highlights that 93% of CERN scientific publications were openly accessible in 2020, thanks to the SCOAP³ initiative and recent Read and Publish agreements. The revised policy reinforces CERN's position on open access and clarifies the default licence applied to each article, i.e. Creative Commons attribution licence (CC-BY-4.0).

CERN Accelerating science Sign in Directo

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CERN revises its Open Access Policy

The updated policy reinforces the Organization's position on open access and clarifies the status of CERN-affiliated corresponding authors

8 JUNE, 2021

A [revised version](#) of the CERN Open Access Policy was approved by Director-General Fabiola Gianotti on 25 May 2021. The updated policy will help strengthen the Organization's commitment to open science and ensure that the output of research from the laboratory is made publicly available

The CERN Open Access Policy – originally introduced in 2014 and last reviewed in 2017 – has facilitated significant progress towards the ultimate goal of publishing all of CERN's research open access. Thanks to this policy, 93% of CERN scientific publications were openly accessible in 2020. This success is primarily attributable to the [SCOAP³ initiative](#), a global, CERN-hosted collaboration of 3000 institutions that has enabled open access publishing of high-energy physics research in key journals. The [recent Read and Publish agreements](#) signed with five major publishers have further widened options for CERN authors to publish their research open access beyond high-energy physics publications.

The revised policy both reinforces CERN's position on open access and clarifies it, in particular with regard to the default licence applied to each article, i.e. [Creative Commons attribution licence \(CC-BY-4.0\)](#), which enables maximum reuse of the research results while requiring that authors receive appropriate credit. Furthermore,

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