



Coordinator's update Karl Johnston

- ISOLDE during covid
- Open access etc
- Training
- GLM area update
- INTC news
- Some recent papers

ISOLDE and covid

- Since March ... CERN and ISOLDE have been in a restricted mode.
- From March 15th (check) till May 18th the site was in so-called «safe» mode, similar to Christmas shutdown. Almost no access except for machine checks at this time, some exceptions: donation of globes, masks and other PPE to the CERN fire brigade.
- Since May 18th CERN has been in phase one of the re-opening. Still limited access but activities resuming.
- Access managed using “white list” which is approved by EP-SME group leader. Currently about 30 people on this list from ISOLDE EP.
- Training required: **COVID-19 - Health & Safety Measures at CERN available at [lms.cern.ch](https://lms.cern.ch/ekp/servlet/ekp?CID=EKP000043435&TX=FORMAT1&BACKTOCATALOG=Y&DECORATEPAGE=N)**:
<https://lms.cern.ch/ekp/servlet/ekp?CID=EKP000043435&TX=FORMAT1&BACKTOCATALOG=Y&DECORATEPAGE=N>



Safety measures....general

DG/2020-103 5 May 2020

EDMS: 2370902

MEMORANDUM

From: Fabiola Gianotti, Director-General, *Fabiola Gianotti*
 Doris Forkel-Wirth, Head of the HSE Unit *Doris Forkel-Wirth*

To: Extended Directorate,
 Technical Coordinators of the large LHC experiments,

Cc: SAPOCO Chair, President of SA, HSE-MB members, Chair of ACCU

Ref: COVID-19-related health and safety measures for the period covering the restart of CERN's activities

Date: 5th May 2020

v. 1 5 May 2020 EDMS: 2370903

ANNEX 1

CERN instructions on COVID-19-related health and safety measures

These instructions complement the Memorandum by the Director-General and the Head of the HSE Unit, entitled "COVID -19-related health and safety measures", issued on 5th of May 2020.

These instructions shall apply as of 5th of May 2020 and until they are revoked. They will be reviewed and updated as needed, to take account of the evolution of the pandemic and of scientific and regulatory developments related to COVID-19.

Safety measures...ISOLDE EP


Declaration and Risk Assessment of activity with respect to the COVID-19 contamination risk and additional risks


Activity/Building Name: ISOLTRAP activities – June/July 2020

This document is considered as part of the measures to fight COVID-19 at CERN, in the EP Department.

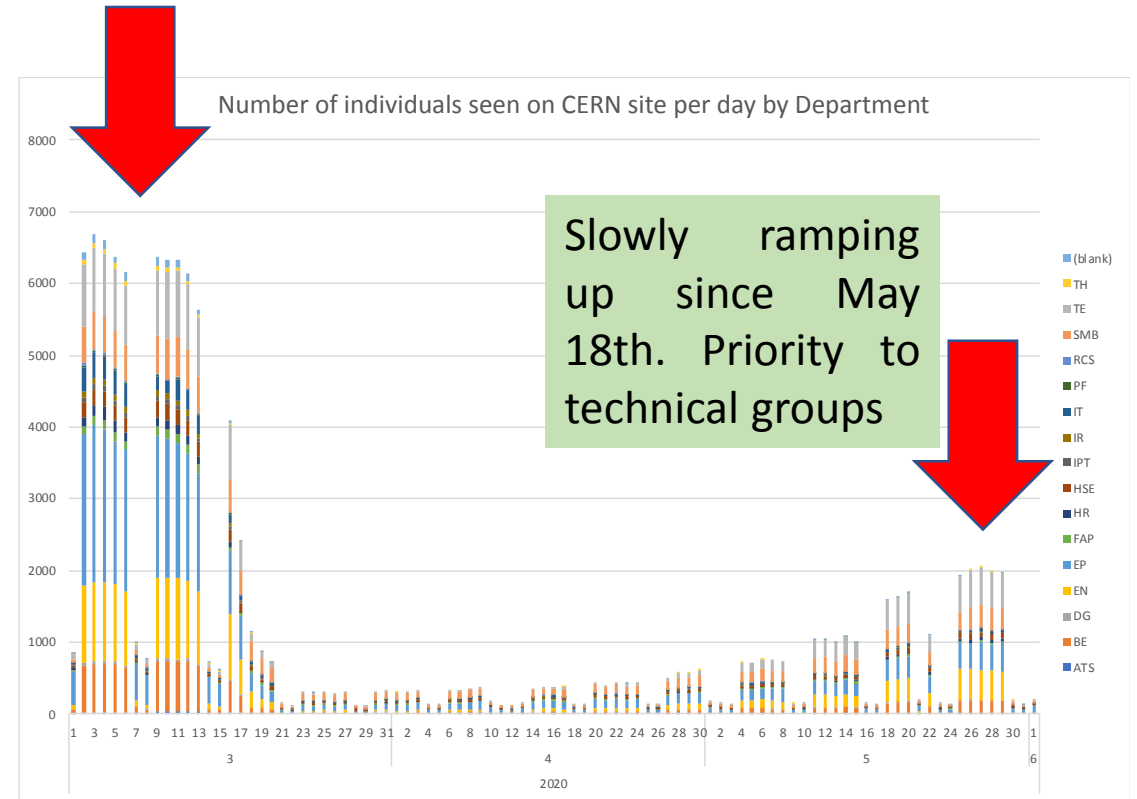
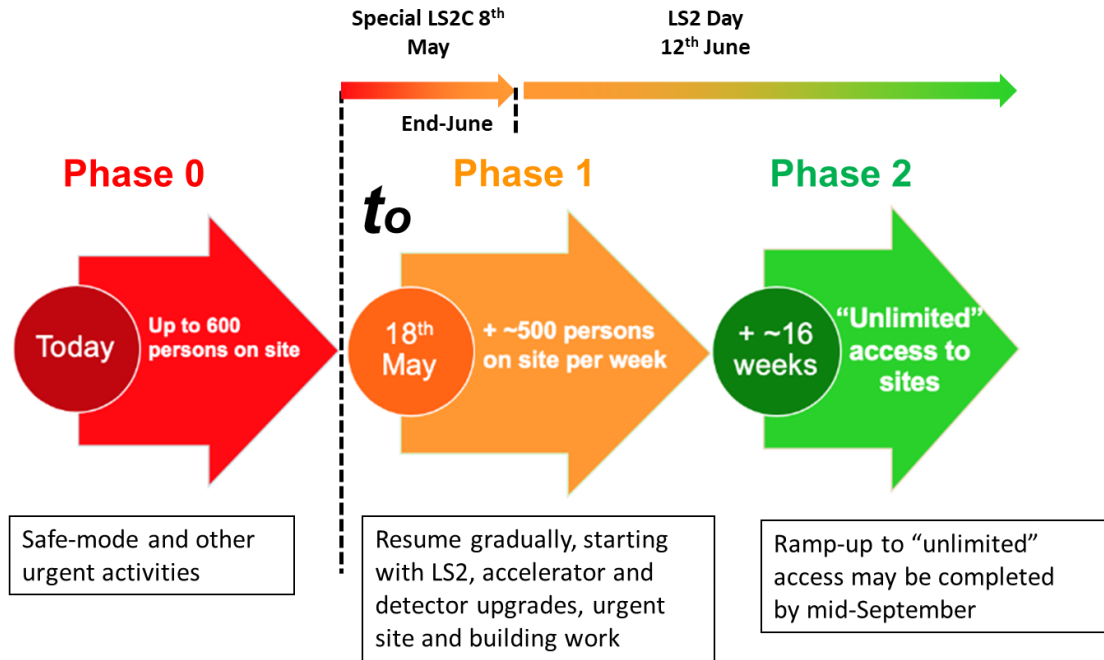
DOCUMENT PREPARED BY: Maxime Mougeot EP-SME Letizia Di Giulio EP-DI	DOCUMENT CHECKED BY: Karl Johnston EP-SME Simon Mataguez BE-OP EP ADSOs	DOCUMENT APPROVED BY: Olga Beltramello EP-DI Joachim Voltaire EN-STI
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DOCUMENT SENT FOR INFORMATION TO:

 EP Safety Office
EDMS Document No: 2368865
Created: 21.04.2020 Page: 1 of 11 Modified: 06.05.2020 Rev. No.: 1.0
General Safety Instructions and Guidelines related to the COVID19 Hazard for the EP activities
Prepared by: O. Beltramello J. Devine N. Dupont E. Dho L. Di Giulio S. Ferry A. Rigamonti
Checked by: L. Bardo K. Barth N. Dupont R. Peruzzza E. Thomas
Approved by: O. Beltramello, EP
Distribution List

 EP Safety Office
EDMS Number: 2382670
Created: 08.06.2020 Page: 1 of 10 Modified: 17.06.2020 Rev. No.: 1.0
General Safety Instructions related to the COVID19 hazard for the EP offices
Prepared by: O. Beltramello EP-DI L. Di Giulio EP-DI
Checked by: James Devine EP-DI Evelyne Dho EP-DI Niels Dupont EP-DI Alberto Rigamonti EP-DI Olivier Prouteau HSE-OHS Yves Loetscher HSE-OHS Andre Henriques HSE-OHS
Approved by: M. Krammer EP
Distribution List

Before shutdown 6-7000 onsite



- Number of personnel on site is still quite limited: for week 26 ISOLDE can have ~12 people max on site at any one time.
- The access priority is given to groups who have deadlines and/or PhD students.
- PPE picked up weekly for the coming week and distributed to the relevant groups. (covered from a central budget)
- Weekly schedule describes who will be on site.
- If home-working is possible this is still the preferred option till September.
- Single office use highly recommended...
- Simple sharepoint contains a calendar and logbook to track who actually came on site.
- Cern.ch/isolde-covid



Week 26 2020		W26 Limit: 12 onsite max	MIRACLS	ISOLTRAP	VITO	MEDICIS	COLLAPS	Occasional	Office
Monday	6/22/2020	AM	MIRACLS POP (2)	ISOLTRAP Horizontal section (4)	Occasional access for SC magnet and sample preparation (1-2)	Laser alignment (1)	Occasional access for beamline preparation (1-2)		NA
		PM							GN
		night							JG
Tuesday	6/23/2020	AM	MIRACLS POP (2)	ISOLTRAP Horizontal section (4)	Occasional access for SC magnet and sample preparation (1-2)	Laser alignment (1)	Occasional access for beamline preparation (1-2)	Razvan Lica; Dinko Atanasov (508/26)	KJ, GN; NA; LV
		PM							KJ, GN; LV
		night							
Wednesday	6/24/2020	AM	MIRACLS POP (2)	ISOLTRAP Horizontal section (4)	Occasional access for SC magnet and sample preparation (1-2)	Laser alignment (1)	Occasional access for beamline preparation (1-2)	Razvan Lica; Dinko Atanasov (508/26)	KJ, GN; NA; LV
		PM							KJ, GN; LV
		night							
Thursday	6/25/2020	AM	MIRACLS POP (2)	ISOLTRAP Horizontal section (4)	Occasional access for SC magnet and sample preparation (1-2)	Laser alignment (1)	Occasional access for beamline preparation (1-2)	Razvan Lica; Dinko Atanasov (508/26)	KJ, GN; NA; LV
		PM							NA
		night							
Friday	6/26/2020	AM	MIRACLS POP (2)	ISOLTRAP Horizontal section (4)	Occasional access for SC magnet and sample preparation (1-2)	Laser alignment (1)	Occasional access for beamline preparation (1-2)	Razvan Lica; Dinko Atanasov (508/26)	JG
		PM							
		night							
Saturday	6/27/2020	AM							
		PM							
		night							
Sunday	6/28/2020	AM							
		PM							
		night							

MIRACLS: two activities: POP (Proof of purpose) and ATTRACT. POP taking place in 508 R 013; 508 R 005; 508 1 005. Attract taking place in ISOLDE hall, close to IDS setup.

ISOLTRAP: restart of the horizontal section. Taking place in ISOLDE hall and 508 1 009.

MEDICIS: Reinhard Heinke Laser alignment 179-1-025; 179-R-025

Offices: NA - Nikolay Azaryan 26 1 017; KJ Karl Johnston 3 1 054; GN Gerda Neyens 3 1 062; LV Liss Vasquez 3 1 066; JG Guilherme Correia 26 1 008

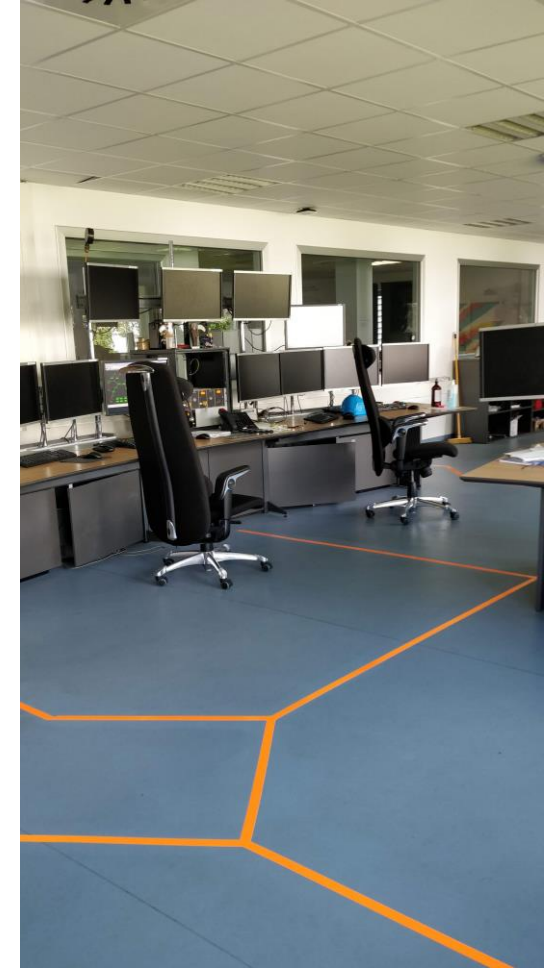
Occasional: Mikael Reponon 252 R 004; Razvan and Dinko: offices and labs (B. 508/B. 26)

COLLAPS: Beamline in B. 170. Initial preparations for restarting work.

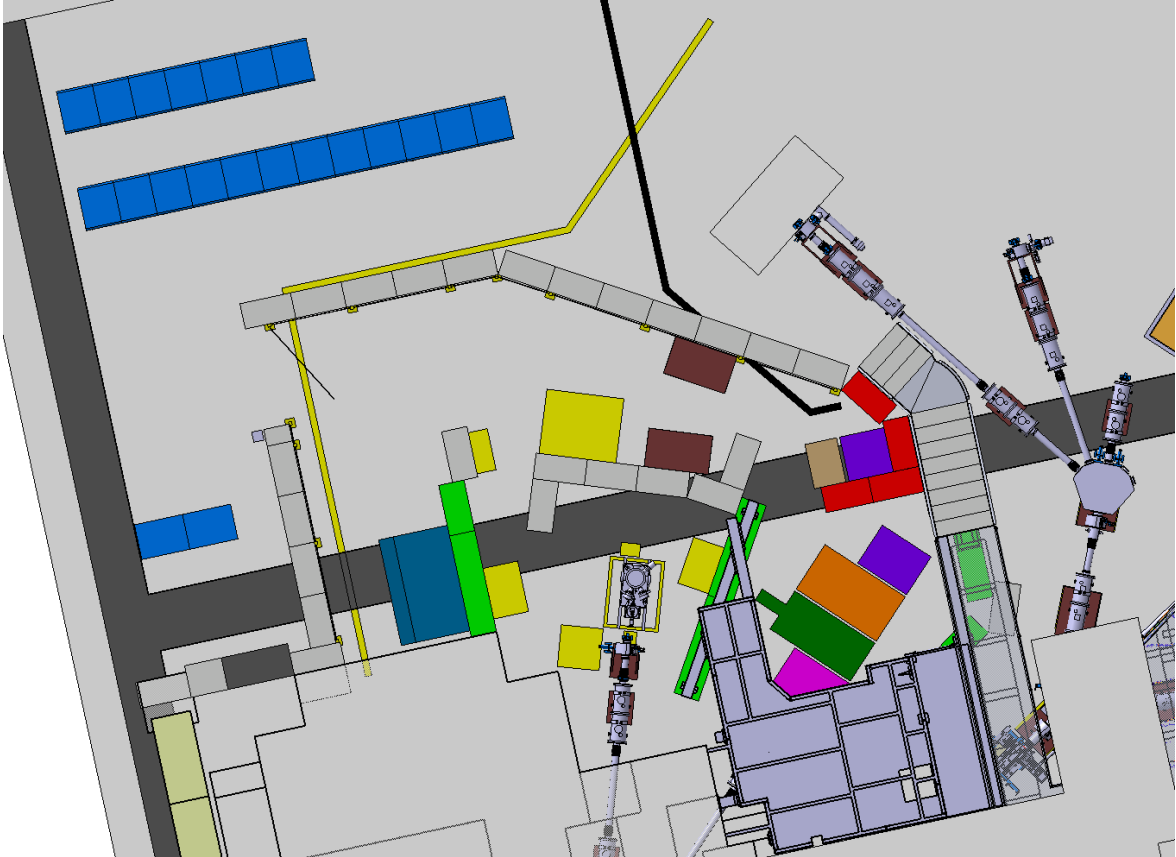
Vito: work on SC magnet and sample preparation. Taking place in B. 275

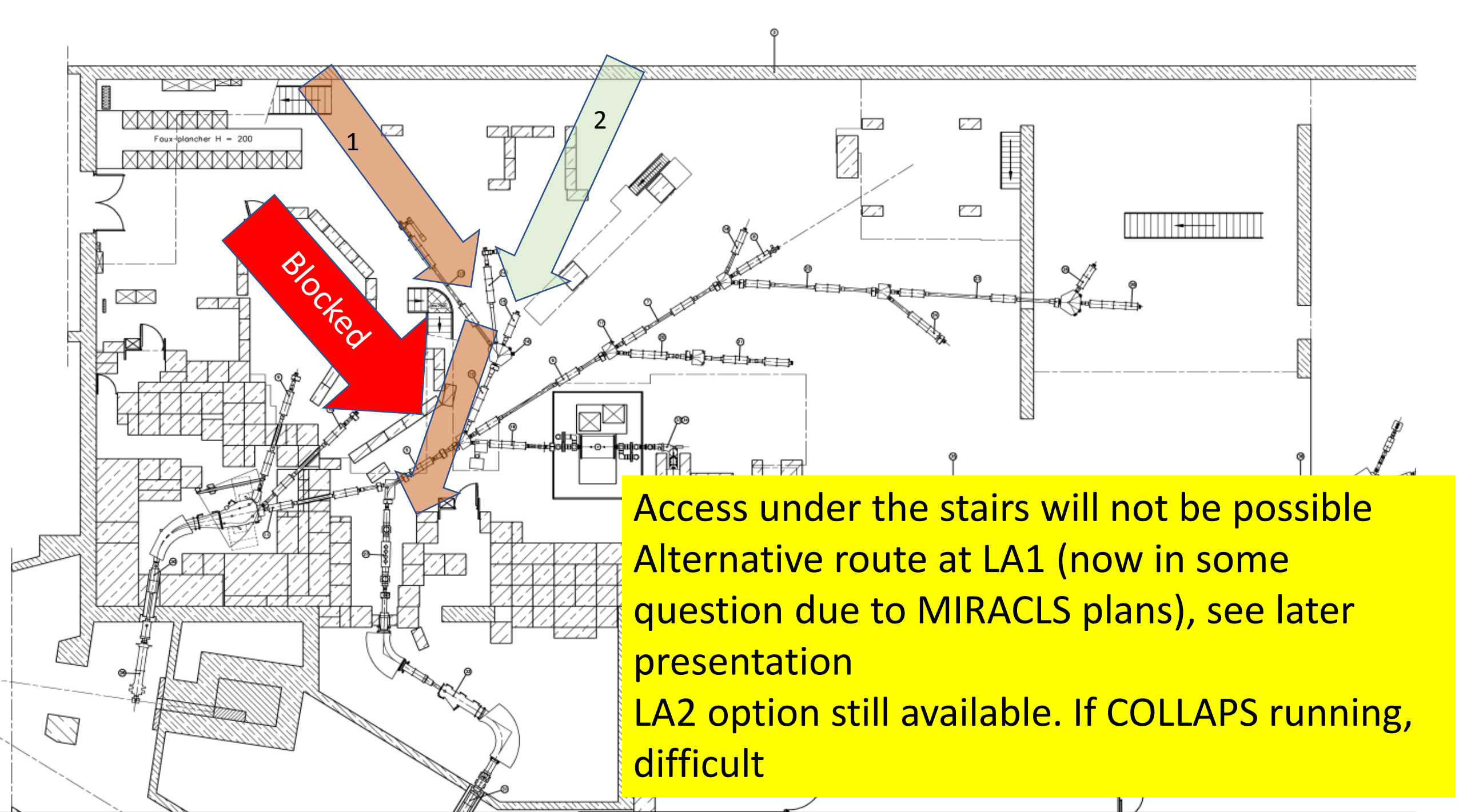
Logbook can be found at cern.ch/isolde-covid

If measures continue...running experiments will not be straightforward.



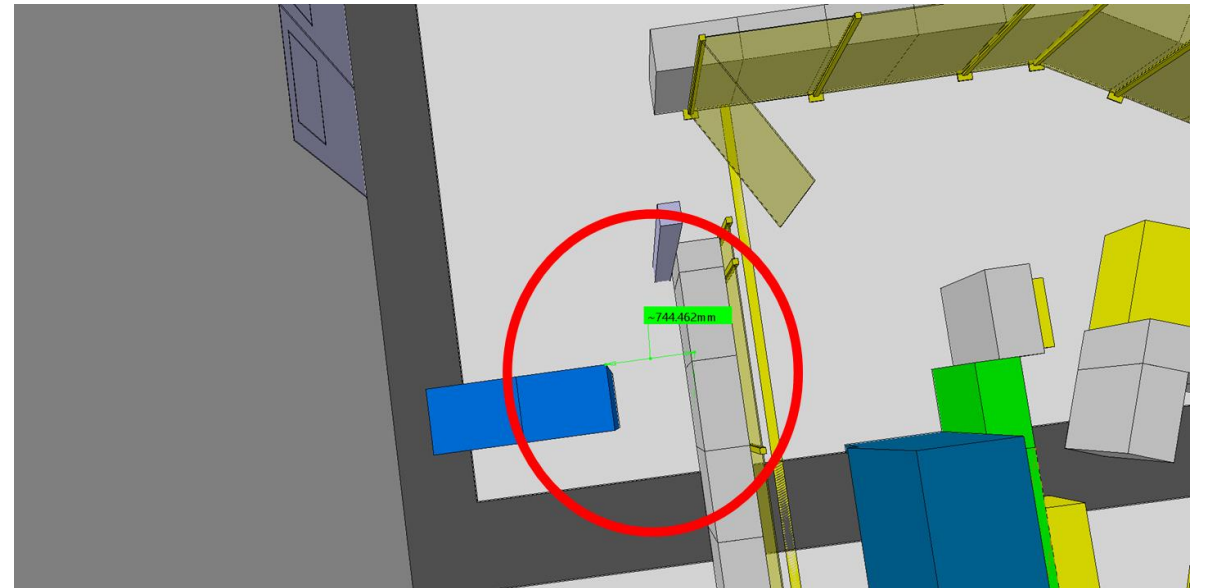
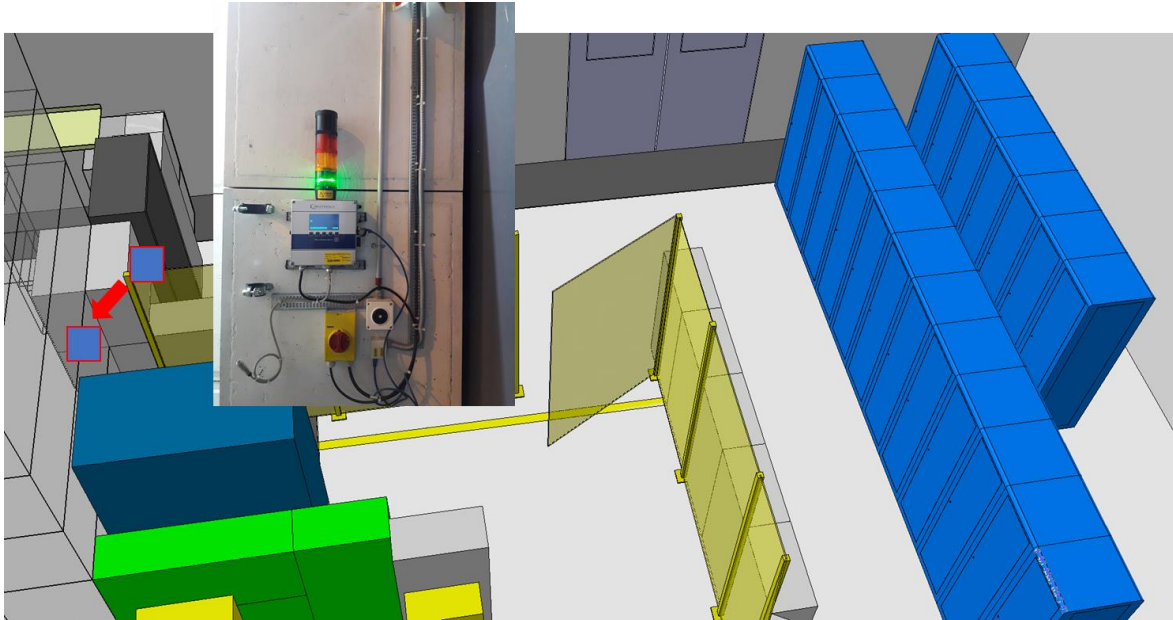
GLM area update

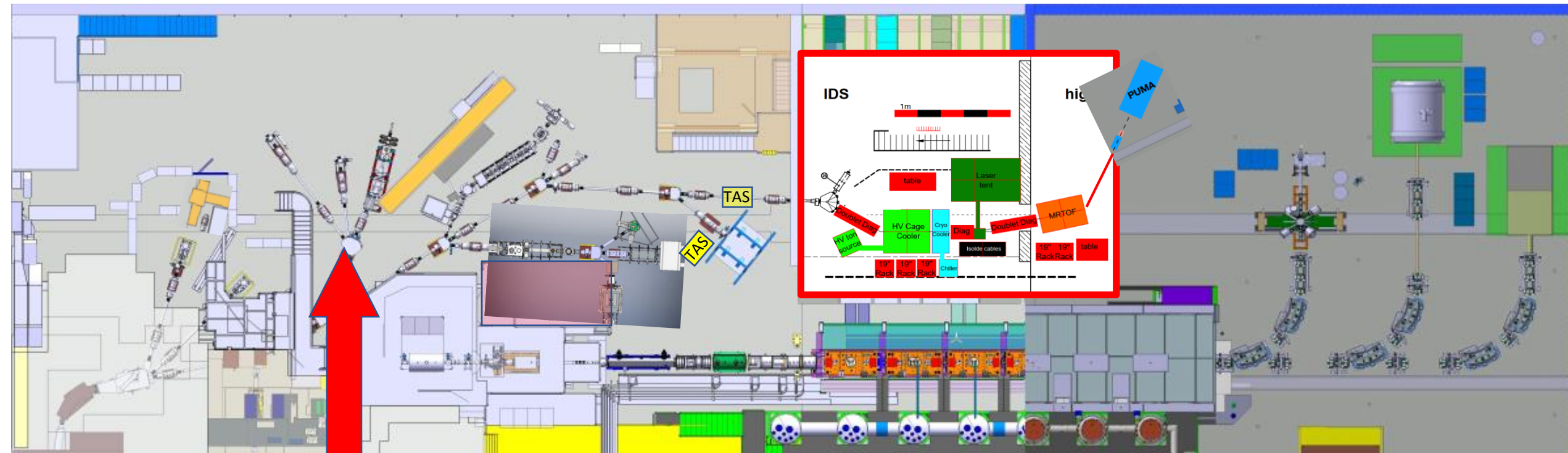




Access under the stairs will not be possible
Alternative route at LA1 (now in some question due to MIRACLS plans), see later presentation
LA2 option still available. If COLLAPS running, difficult

Timeline when work could begin: September.





MIRACLS: likely to move to LA2 initially and eventually to old NICOLE area....

Open access and publications

- All publications from research which has received EU support needs to be made available via open access.
- All publications should acknowledge the EU support e.g. «This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654002.»
- CERN has some agreements with certain journals e.g. Nature, Nature Physics, PRL, PRC.
- Since May 2020, a new agreement with Institute of Physics Publishing — which includes Journal of Physics G — allows for any paper from a collaboration or experiment hosted at CERN to be published as Open Access.
- In other cases CERN may be able to help in covering some open access costs. Please contact me if a paper is close to being accepted and we can discuss with the library. E.g. papers in Nature Communications have been supported in this manner.
- Otherwise papers should be available on an arxiv. CDS is sufficient for EU (at least ENSAR2) needs....

Upcoming INTC meetings

- Following the long review of outstanding proposals, the INTC is once again accepting new proposals.
- Tomorrow's meeting will focus on low energy physics and November will allow for new high energy proposals, but will also accept for low energy.

Current backlog

Row Labels	Count of Experiment/LOI	Sum of Shifts remaining for Run3
biophysics	1	9.5
COLLAPS	1	17
Collections: 163Ho	1	6
CRIS	1	13
Gandalph	1	8
HIE	17	318
IDS	2	22
ISOLTRAP	3	27
SSP	3	19
TISD	2	11
Windmill/IDS	1	22.5
Travelling Setup	2	17
Grand Total	35	490

HIE ISOLDE

Row Labels	Count of Experiment/LOI	Sum of Shifts remaining for Run3
Miniball	14	236
XT03: Corset	1	12
XT03: Edinburgh	1	42
XT03: Actar	1	28
Grand Total	17	318

Summary of INTC 64

Scientific Field	Sum of Shifts requested	# of proposals
biophysics	29	1
Charge radii	0	1
Conversion electron spectroscopy	7	1
Decay spectroscopy	119	9
Laser Spectroscopy	118	4
Magnetic moments	27	1
Mass spectrometry	15	1
SSP	41	3
Total absorption spectroscopy	22	1
Grand Total	378	22

- Open session tomorrow via Zoom:
- <https://indico.cern.ch/event/923436/>
- <https://cern.zoom.us/j/99059401343?pwd=MGVCbWY4MXRkVWNadHlveDU5NWVrUT09>
- Closed session on Thursday Morning.
- Deadline for INTC 65 likely to be again 6 weeks before the meeting: i.e. Sept 22. Note that November meeting is on Tuesday and Wednesday: 3rd and 4th November.

Safety matters

Safety training is currently suspended at CERN.

ISOLDE hands-on courses are also therefore not available. There are expected to be some updates to the training for next year, an update will be given at the ISCC meeting in November.

As training has not been very available during LS2 permission has been given for me to train occasional users when needed. But an alternative solution should be found. A remote test of «hands-on» has taken place already during covid so this might be an option going forward...

Safety files:

All experiments at ISOLDE are refreshing their safety files. This is linked to a revised manner for the beam permit in run3. Experiments will need to have an approved file to receive beam. Process is ongoing in close collaboration with Letizia di Giulio from EP safety.

Some recent output

Article

Spectroscopy of short-lived radioactive molecules

<https://doi.org/10.1038/s41586-020-2299-4>

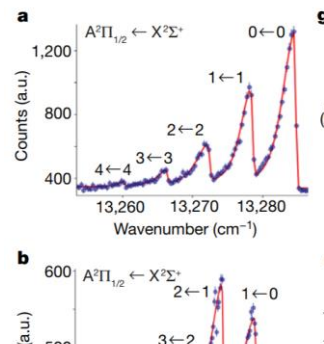
Received: 24 July 2019

Accepted: 13 March 2020

Published online: 27 May 2020

Open access

R. F. Garcia Ruiz^{2,3}, R. Berger^{2,3}, J. Billowes¹, C. L. Binnersley¹, M. L. Bissell¹, A. A. Breier¹, A. J. Brinson², K. Chrysalidis¹, T. E. Cocolios⁶, B. S. Cooper¹, K. T. Flanagan¹, T. F. Giesen¹, R. P. de Groote¹, S. Franchoo¹, F. P. Gustafsson¹, T. A. Iasev^{2,3}, Á. Koszorús¹, G. Neyens¹⁴, H. A. Perrett¹, C. M. Ricketts¹, S. Rothe¹, L. Schweikhard¹, A. R. Vernon¹, K. D. A. Wendt¹, F. Wienholtz¹, S. G. Wilkins^{1,3,4} & X. F. Yang^{1,3,5}



New page on ISOLDE website:
<https://isolde.web.cern.ch/outreach>

First measurements

396 | Nature | Vol 581 | 28 May 2020

LETTERS

<https://doi.org/10.1038/s41567-020-0868-y>

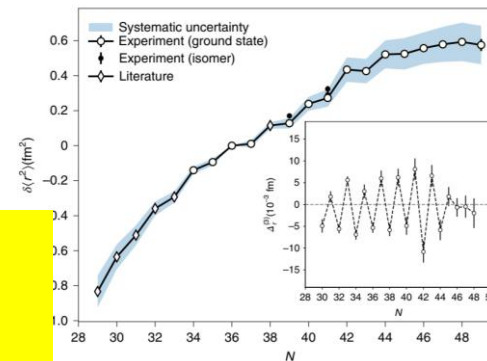
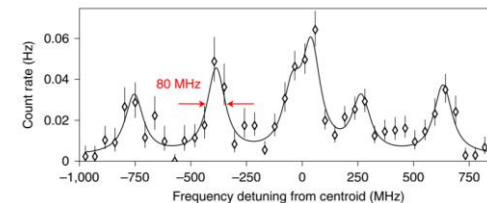
nature physics

Check for updates

OPEN

Measurement and microscopic description of odd-even staggering of charge radii of exotic copper isotopes

R. P. de Groote^{1,2,3,5}, J. Billowes¹, C. L. Binnersley¹, M. L. Bissell¹, T. E. Cocolios¹, T. Day Goodacre^{4,5}, G. J. Farooq-Smith¹, D. V. Fedorov⁶, K. T. Flanagan¹, S. Franchoo¹, R. F. Garcia Ruiz^{2,3,5}, W. Gins^{1,2}, J. D. Holt^{5,10}, Á. Koszorús¹, K. M. Lynch⁹, T. Miyagi¹¹, W. Nazarewicz¹¹, G. Neyens¹⁹, P.-G. Reinhard¹², S. Rothe^{13,4}, H. H. Stroke¹³, A. R. Vernon¹³, K. D. A. Wendt¹⁴, S. G. Wilkins^{13,4}, Z. Y. Xu¹ and X. F. Yang^{1,15}



PHYSICAL REVIEW LETTERS 124, 062502 (2020)

First Exploration of Neutron Shell Structure below Lead and beyond $N = 126$

T. L. Tang,¹ B. P. Kay^{1,*}, C. R. Hoffman,¹ J. P. Schiffer,¹ D. K. Sharp,² L. P. Gaffney,³ S. J. Freeman,² M. R. Mumpower,^{4,5} A. Arokiyaraj,⁶ E. F. Baader,³ P. A. Butler,⁷ W. N. Catford,⁸ G. de Angelis,⁹ F. Flavigny,^{10,11} M. D. Gott,¹ E. T. Gregor,⁹ J. Konkki,³ M. Labiche,¹² I. H. Lazarus,¹² P. T. MacGregor,² I. Martel,⁷ R. D. Page,⁷ Zs. Podolyák,⁸ O. Poleshchuk,⁶ R. Raabe,⁶ F. Recchia,^{13,14} J. F. Smith,¹⁵ S. V. Szewc,^{16,17} and J. Yang⁶

First paper from ISS

First “high energy” HIE paper: 7.38MeV/u

