

Experiments, Schedule & Access to the hall



Magdalena Kowalska



Experiments

Activities at existing setups (IDS and VITO – see presentations):

- COLLAPS
 - DAQ refurbishing and Ca setup preparations (outside CERN)
 - Many activities stopped due to delay in b508
- CRIS
 - ready to take beam – tests with off-line ion source
 - lasers (in ISOLDE hall) almost ready
- GLM/ GLM
 - Testing new deflector-plate mechanism and controls
 - Collection chambers in place (new GHM sample holder, new GLM chamber to come)
- ISOLTRAP
 - Magnets and setup refurbished
 - Stable ions in horizontal line
- NICOLE
 - June – fridge reinstalled; leak-tight at room temperature

ISOLDE schedule

	LI	GPS	HRS
29	14-Jul		sem-grid tests
	15-Jul	sem-grid tests	Target change: UC-W #507, mass marker Tl, Cs
	16-Jul		tape station tests
	17-Jul		tape station tests
	18-Jul	Target change: Ta-W 50um foil #508, mass marker Dy, Cs	tape station tests
	19-Jul		(IS471 - if ISOLDE ready)
	20-Jul		(IS471 - if ISOLDE ready)
	21-Jul	separator setup to GLM, GHM stable beam to GLM, GHM Dy	more tests if needed radio beam to IDS
	22-Jul	p-scan Dy IS528	more tests if needed radio beam to Ids
	23-Jul	Dy IS528 IS486, I141, I153 Dy IS528	(IS471, CRIS) proton priority -GPS (IS471)
30	24-Jul	Dy IS486, I141, I153 IS528	(IS471) proton priority -GPS (IS471)
	25-Jul	Dy physics IS486, I141	(IS471) IS471
	26-Jul		IS471, CRIS 01-206, 218-219Fr
	27-Jul		IS471
	28-Jul	Dy physics - night collections	IS471 CRIS (IS471)
31	29-Jul	Dy (IS486, I141, I153 - HRS priority) physics - night collections	IS471 CRIS (IS471)
	30-Jul	Dy (IS486, I141, I153 - HRS priority) physics - night collections	IS471
	31-Jul	Dy (IS486, I141, I153 - HRS priority) physics	IS473, 202TI stable beam to Isoltrap
1-Aug	Target change: nanoUC-Re #509, m marker Cs,Rb, (Cd)	TI ISOLTRAP IS473	

2-Aug	pumping		ISOLTRAP IS473	5
3-Aug			ISOLTRAP IS473	8
4-Aug	separator setup to CAD sep setup to tape station stable beam to IDS		Isoltrap	8.5
5-Aug	p-scan yield checks yields - TISD		cooling	
6-Aug	yields TISD	5	cooling	
7-Aug	IDS IS579, 150-152Cs	3	Target change: UC-Ta-q-conv #510, m marker Cs, Cd, (Mn)	
8-Aug	IDS IS579, 150-152Cs	6	pumping	
9-Aug	IDS IS579, 150-152Cs	9		
10-Aug	IDS IS579, 150-152Cs	12		
11-Aug	IDS IS579, 150-152Cs	15		
12-Aug	yields (collections - 83Rb)	1	separator setup to ISCOOL ISCOOL setup	
13-Aug	collections (if p) - 83Rb		separator setup to CAD sep setup to tape station stable beam to ISOLTRAP	
14-Aug	collections (if p) - 83Rb	3	p-scan yield checks	
15-Aug		6	ISOLTRAP IS574, 129-131Cd	4
16-Aug			ISOLTRAP IS574	7
17-Aug	cooling		IS574	10
18-Aug	cooling		IS574	13
19-Aug	Target change: Pb-VDS #463		IS574	16
20-Aug	separator setup to GLM stable beam to GLM stable beam to GLM		IS574	19
21-Aug	Hg sep setup to tape station stable beam to LA1 and IDS p-scan			

- V1.0-1.1, Apr 25th
- HRS delayed by 1-2 wks -> v1.2 in preparation
- Each collaboration and setup get some beam
 - priority for IS exp waiting long or failed before
- 530 shifts requested
- 260 scheduled so far:
 - 14 wks
 - 29 IS exp. 5 LOIs

Buffer time on HRS:
Physics not delayed in spite
on HRS problems

ISOLDE schedule

22-Aug	yield checks		
	LAT - Bratislava ISS21, 183,185Hg	4.5	
23-Aug	ISS21	7.5	
24-Aug	ISS21 (GLM collections)	10	
	Hg (RILIS VADIS tests) 1 ISS21	12	
25-Aug	ISS58, IDS 207,208Hg	3	
26-Aug	ISS58, IDS 207,208Hg	6	
	GLM, I87, 10-20kV IS487, IS492, ISS15, ISS58	3	Mn
29-Aug	(ISS58 if HRS not used) IS487, IS492, ISS15, ISS58	6	COLLAPS ISS08, Mn no RILIS overnight
30-Aug	(ISS58 if HRS not used) IS487, IS492, ISS15, ISS58	9	COLLAPS opt pumping in ISCOOL no RILIS overnight
1-Sep	Target change: UC-1a-conv #512, m marker Rb,Mn,In		COLLAPS opt pumping in ISCOOL no RILIS overnight
	Mn separator setup to CAD sep setup to tape station stable beam to GLM, IDS		
2-Sep	p-scan yield checks		
3-Sep	IDS, ISS90, 68Mn GLM, GHM: IS472,IS489, ISS01, ...ISS76, ISS78, ISS80 4+0.5		
	IDS, ISS90, 68Mn GLM, GHM	6.5 + 1	
4-Sep	IDS GLM, GHM	9 + 1.5	cooling
5-Sep	IDS GLM, GHM	11.5 + 2	cooling
6-Sep	GLM, GHM	6.5	Target change: UC-1a #513, m markers Cs, Au, X
7-Sep	GLM, GHM	9.5	separator setup to ISCOOL ISCOOL setup
8-Sep	In collections: ISS01, ISS76	3	Au separator setup to CAD sep setup to tape station
9-Sep	In collections: ISS01, ISS76	6	stable beam to ISOLTR, LAT jeune genevois
	In collections: ISS01, ISS76	9	p-scan yield checks
10-Sep	WINOMILL-LAT, ISOLTRAP		
11-Sep			
12-Sep			
13-Sep			ISS34, >174Au 4.5
14-Sep	cooling		ISS34 7.5
15-Sep	cooling		ISS34 10.5
16-Sep	Target change: Sn-VD5 #491		ISS34 13.5
17-Sep			ISS34 16
18-Sep	separator setup to CAD sep setup to tape station stable beam to GLM		ISS34 18
	p-scan yield checks p-sharing		(Au - p-sharing) 19.5
19-Sep	GLM IS481, IS487, ISS15, ISS44, ISS58, I147	4.5	cooling (long-lived nuclei; no p)
20-Sep	GLM	7.5	cooling (long-lived nuclei; no p)
21-Sep	GLM	10.5	Target change: UC-1a-conv #515, m marker Rb, Cu, Zn
22-Sep	GLM	13.5	separator setup to ISCOOL ISCOOL setup
23-Sep	Target change: Al2O3 or C #516, TISD, B		separator setup to CAD sep setup to tape station stable beam to CRIS
24-Sep			Cu p-scan yield checks
25-Sep	separator setup to CAD		CRIS ISS31, 76-78Cu 4.5
26-Sep			ISS31 CRIS 7.5
27-Sep			
28-Sep			
29-Sep	sep setup to tape station p-scan yield checks - TISD		
30-Sep	TISD yield checks	5	
1-Oct	Target change: 1a-Re #517, m marker U,Be,Na 20-6-20 um		collaps = stable surf beam collaps = stable surf beam
2-Oct	separator setup to CAD sep setup to tape station		
3-Oct	p-scan yield checks		
4-Oct	LAT ISS25, 11Lu	4.5	
5-Oct			7.5
6-Oct	ISS25		10.5
7-Oct	ISS25		13.5 Zn
8-Oct	ISS25		16.5
9-Oct	Target change: CaO-VD7 #518, no O2		stable Zn to COLLAPS COLLAPS, ISS19
			Zn COLLAPS, ISS19 ISS19, <-81Zn 4.5
10-Oct			ISS19 7.5
11-Oct			ISS19 10.5
12-Oct			
13-Oct	separator setup to CAD sep setup to tape station stable beam to IDS		cooling
14-Oct	p-scan yield checks		cooling
15-Oct	IDS IS476, ISS77, 31Ar	4.5	Target change: CaO #519, no O2
16-Oct	IDS IS476, ISS77, 31Ar	7.5	separator setup to ISCOOL ISCOOL setup
17-Oct	IS476, ISS77	10.5	separator setup to CAD sep setup to tape station
18-Oct	IS476, ISS77	13.5	
19-Oct	IS476, ISS77	16.5	
20-Oct	(ISS42 if A=32 in HRS not ok)		p-scan yield checks stable beam to ISOLTRAP
21-Oct	(ISS42 if A=32 in HRS not ok)		ISOLTRAP ISS42, 32Ar 3
22-Oct	Target change: NaF-VD5 #520		ISS42 6
23-Oct	separator setup to CAD		ISS42 9
24-Oct	sep setup to tape station p-scan		Target change: UC-conv #521, (targ change on Mon if IS476 and ISS42 use HRS)
25-Oct	yields		(ISS42 if IS476 runs on HRS)
26-Oct	yields	4.5	(ISS42 if IS476 runs on HRS)

Access to ISOLDE

Users requesting dosimeter after Jul 1st: (www.cern.ch/isolde/get-access-isolde-facility)

- No temporary dosimeters possible
- To obtain dosimeter:
 - Follow online courses on general safety (as before)
 - Follow online RP course on Supervised Areas (as before)
 - Follow ISOLDE online RP course – **NEW, being finalised**
 - Present RP form signed by home institute – **NEW, available since last week**
- To access ISOLDE (after July 22nd):
 - Follow 2-h RP ISOLDE practical course – **NEW** (2pm Tue, Fri, 1st course planned for Jul 22nd)

CERN staff requesting dosimeters: as before (online courses + 1-day course)

Users and staff with valid dosimeters:

- After July 1st: Follow ISOLDE online RP course
- Follow new procedure when present medical certificate expires

Access to ISOLDE via dosimeter, not CERN card

Access to ISOLDE

● RP form

Certificate attesting the suitability to work in CERN's radiation areas

This certificate is mandatory for Associated Members of the Personnel (MPAs¹), who wish to work, even temporarily, in a radiation area at CERN.

The provision of this signed certificate is a prerequisite for the attribution of a dosimeter by CERN's Dosimetry Service, without which it is not possible to work in CERN's radiation areas. Alternatively, a valid radiation protection passport can be presented to CERN's Dosimetry service.

The certificate must be signed by the authorized representative of the home institution².

The MPA concerned should be categorized as a Category B exposed worker in accordance with the definition of Council Directive 2013/59/Euratom³.

Cern ID (if already attributed) _____

Name (as in passport) _____

First name(s) _____

Date of birth (day/month/year, in figures) _____

Name of home institution _____

Country _____

Date of last medical certificate attesting the suitability for work in radiation areas:

Date of last training in radiation protection provided by the home institution: ⁴

Expiry date of this certificate: ⁵ _____

Signature of the authorized representative:

Date:

Signature:

Name (in block capitals):

Stamp:

Access to ISOLDE

Sommaire

E-course

- Dosimétrie et pré-requis administratifs
- Présentation du Hall expérimental ISOLDE
- Risques d'exposition aux rayonnements ionisants
- Sources radioactives scellées ou non scellées
- Zonage radioprotection et secteur de travail
- Localisation des risques d'exposition
- Systèmes de surveillance radioprotection
- Gestion et tri des déchets
- Contrôle de non contamination en sortie de zone
- Test

Practical course

- S'habiller / se déshabiller (blouse) et/ou gants à définir avec les experts RP
- Utiliser des appareils de détection de contamination / débit de dose
- Lire un système informatique permettant d'obtenir le débit de dose de moniteurs fixes (système nommé GRAMS)
- Savoir se prémunir contre les risques de contamination
- Utiliser un détecteur mains/pieds
- Mieux appréhender les risques d'un mauvais réglage machine (impliquant la collection d'un faisceau hautement radiotoxique par exemple)
- Que faire en cas de contamination suspectée ou avérée (et comment faire la différence) ?
- + autres sujets vus avec nos experts et coordinateurs.

