

## **ISOLDE** report **INTC 76**

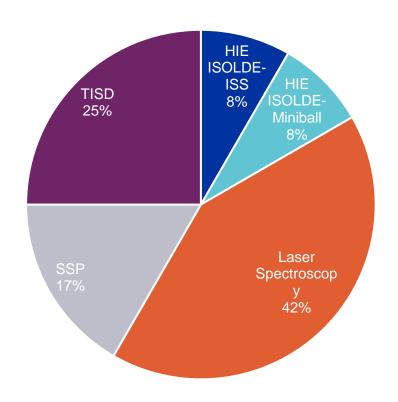




# **INTC 76 summary**

	INTC documents	Requested shifts	<b>Requested Protons</b>
■ISOLDE	12	122	0
Letter of Clarification	1	9	0
Letter of intent	4	19	0
Proposal	7	94	0
□nTOF	6	0	2.55E+19
Addendum	1	0	1E+19
Letter of intent	3	0	2E+18
Proposal	2	0	1.35E+19
Grand Total	18	122	2.55E+19

**ISOLDE**Distribution of documents per topic



1 shifts = 8 hours; 1 day $\sim$  1 x 10<sup>17</sup> protons



ISOLDE accepted shifts (including outcome INTC

**75)** 

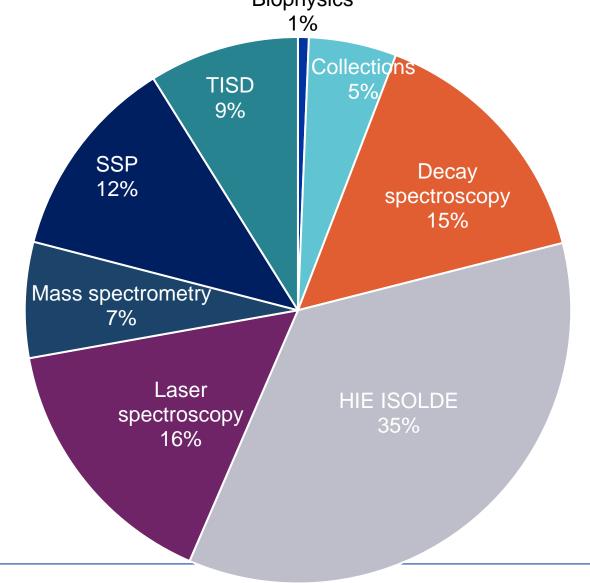
Low energy experiments: ~1150 shifts

Counted shifts 2023: 370 shifts

• HIE-ISOLDE experiments: ~700 shifts

Counted shifts 2023: 125 shifts

Note: all experiments will be automatically closed at the end of run 3





## **ISOLDE** schedule 2024

- Protons for physics to ISOLDE from 8 April – 25 November (4 weeks longer than originally foreseen ©)
- Winter Physics (low E only) until 9 December (TBC)
- Separator course 10-11 December (TBC)
- Preliminary 2025 schedule: 25.03 - 17.11 (protons for physics)
- LS3 for ISOLDE: no physics for 2026 and 2027 (TBC)



Schedule 2024: weeks 14 - 35



		GPS																					
												May	June										
Week	$\Box$	14	т	15	Pin	16	П	17	$\neg$	18	П	19	Ϊ,	20	П	21	Т	22	т	23		24	
Mon	1		8		15		22		29	IS688 - 149Dy	6	- 10	13	IS668 - GLM+GHM	20	IS662 (cont.)	27		3	IS659+IS668 (cont.)	10		
Tue	2		9	#849-Ta-VD5	16		23		30	(nights) - GLM	7		14		21		28		4		11	Stable beam ASCII	
Wed	3	#851-Pa -VD5	10		17		24		1		8	#727M-Pb-VD5	15		22	<b>7</b>	29		5	(50(44	12		
Thur	4		11	TISD - Tb production	18	LOI259 - 70Br (neg)	25		2		9		16		23	150LOL Dress Ration	30		6	2C-5Li	13	Tech. stop (no p+)	
Fri	5	LOI258 - Pa	12		19		26		3		10		17		24		31		7	#534-Sn-VD7	14	oil sampling	
Sat	6	TRAP	13	TRRP	20	IS643-Cl- Gandalph GLM	27		4		11		18	IS662 - 132,134In	25		1	IS659 - 9Li (IDS) +	8		15		
Sun	7	/ LIGHT	14	ı.	21	GLI-I	28	IS688	5		12		19		26		2	IS668 - 75Ga (GHM)	9		16	111mCd - GLM	
RILIS						Negative Cl	П	Negative Cl/Dy		Dy				In	П	In		Ga		Ga	Г		
			ne (d	cont.)	_			Ju	ly				_				_	August	_				
Week	Ш	25	┺	26		27	Ш	28		29	Ш	30	┡	31	Ц	32	╄	33	_	34	Ш	35	
Mon	17	111mCd - GLM, LOI248, LOI249,	_	#820-La(liq)-MK1(Ta	1	Target change	8		15		22		29		5	IS742-132SnS	12		19	-	-	IS675 - 61Zn (cont.	
Tue	18	IS713, IS730, IS732,	25	IS721 - 135Cs coll	2		9		16		23	(cont.)	30		6	(cont.)	13		20		27	Target change	
Wed	19 20	IS738	26		3		10	IS725 - 226Ra coll	17		24 25	HILL COA	31		7 8	199	14		21		28 29		
Thur	21		28	4	5		12	GLM (no p+)	18 19		26		2		9	$\sim$	15	-	22		30		
Sat	22	1557	29		6	IS529-54Ca	13	8 8 -	20	IS702-134SnS -	27	Target change	_	IS742-132SnS - ISS	_		17		24		31	IS646 - 79Zn	
Sun	23	ISOLDE Solid State Physics	30		7		14		21	Miniball	28		4	10742-1020110-100	11		18		25	100	1	10040-70211	
RILIS				1	_	Ca							_							Zn	П	Zn	
	•						•																
												HRS											
		April	_										May				_			June			
Week	Ш	14	╙	15		16	Ш	17		18	Ш	19	╙	20	Ш	21	_	22		23	Ш	24	
Mon	1		-	#835 UC MK1(Ta)	15	#821-UC-MK1(Ta)	22		29		6		13	IS678 (cont.)	20		27		3		10	IS737 (cont.)	
Tue	2		9	-	16		23		30	K/In stable	7		14	<b>E</b>	21	#838-ZrO-MK1(Ta)	_		4	#858-UC-MK1(Ta)	11		
Wed	3		10	-	17		24	IS733 - 49-51K	1	CRIS	8	10070 004	15		22		29		5		12		
Thur	4		11	TISD	18		25	V	2	#823-CaO-VD7	9	IS678 - 32Ar	16		23		-	TISD (incl. for IS694	16		13	Tech. stop (no p+	
Fri	5 6	#818-UC-MK1(Ta)	12	-	19 20		26 27	Ť	4		10	6 P	17 18		24	ZrO - TISD + LOI232	31		17	Stable beam CRIS IS737 - 177-188Au	14 15	oil sampling	
Sat Sun	7		13	-	21		28	0	5		11		19		26	210 - 1130 + 101232	2 2		8	CRIS.	16	IS737 (cont.)	
RILIS			14		21		20		9		12		19		20	Zn/Se		Zn/Se	9	Au	16	Au	
MEIO													LIIIOC		211/30	ı	Au		Au				
	Г	June (cont.) July															August						
Week	П	25	T	26		27	П	28	, 	29	П	30	Т	31	П	32	Т	33	Т	34		35	
Mon	17	IS <u>737 (con</u> t.)	24		1	Target change	8		15	IS686 - 108Sn (cont.	22		29	IS745-96Cd	5		12	IS736-105-112Sb	19		26		
		Cole	1							166	1 1									i .	. 1		

		Jur	1e (d	cont.)		July								August									
Week		25		26		27		28		29	Ι	30		31		32		33		34		35	
Mon	17	IS737 (cont.)	24	#776	1	Target change	8		15	IS686 - 108Sn (cont.) 2	2		29	IS745-96Cd	5		12	IS736-105-112Sb	19		26		
Tue	18	CRIS.	25		2		9		16	2	3		30	Isol	6		13		20		27		
Wed	19	IS726 - 206Au	26		3		10		17	Target change 2	4		31	TRAP	7		14	CRIS	21		28		
Thur	20	ROL	27		4		11		18	2	5		1	Target change	8		15		22		29		
Fri	21	TRAP	28	Isoltrap/tapestation/ IDS (days) +	5		12		19	2	6	IS745-96Cd	2		9		16		23		30		
Sat	22	Stable beam	29	MIRACLS stable	6		13	IS686 - 108Sn - ISS	20	2	7	TRAP	3		10	IS736-105-112Sb-	17		24		31		
Sun	23	MIRACLS	30		7		14	199	21	2	8	TRHIP	4		11	CRIS	18		25		1		
		Au		Mg				Sn		Sn		Cd		Cd		Sb		Sb					



### Feedback from first runs of 2024

### Scheduled shifts (cut-off Friday 17/05)

- INTC proposals and LOIs: 60 shifts, 6 runs
- TISD measurements: 15 shifts (no experiments wanted to run first 2 weeks ... )
- Stable beam to commissioning setup: CRIS, ECSLI (~9 shifts)
- Irradiation for winter physics targets: 10 shifts

#### **Highlights**

- LOI258: first production of Pa beams at ISOLDE
- IS688: record activities during 149Tb collections for targeted alpha therapy sent to PSI
- IS733: Decay spectroscopy on neutron-rich K with spin-polarized beams, first physics data for DeVITO
- IS662: new set of neutron detectors at IDS work well (ongoing experiment)



# Safety

- Crane Transport service (temporary measures)
- Safety files EP safety
  - Plan inspections before run (if modifications are made to the regular setup)
- Procedures EP safety
- Radioactive sources Radioactive Source Management Service
  - Alpha sources
  - (*≠* implanted samples)
- Training for newcomers to ISOLDE
  - Classroom training: RP and electrical safety
  - Book at least 14 days in advance
  - No ad-hoc training

