

### Coordinator report

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6<sup>th</sup> November 2024

# **Feedback from runs since June**



High angular momentum single-part.

states outside double-magic <sup>132</sup>Sn.

For the first time, <u>ALL</u> the valence

single-neutron orbitals outside the

doubly-magic core have been

IS742 - <sup>132</sup>Sn(*d*,*p*)<sup>133</sup>Sn @ISS

### IS529 – 54Ca @COLLAPS

- Shed light on the magic nature of the N=32 and N=34 shell closure
- Sensitivity record : First collinear laser spectroscopy with < 1 ion/sec, using ROC technique





#### IS760 - Lithium Niobate Domain Walls

Single domain poled (SD) and periodically poled lithium niobate (PPLN) samples were investigated using <sup>111m</sup>Cd and the PAC technique significant improvement in terms of understanding the local scale phenomena



observed.

## **Issues since June**

- After a series of incidents during the 111mCd PAC beam time in June, no runs in GLM/GHM and 508 offline labs are allowed (until the end of the year)
  - Affects solid state physics runs (Moessbauer, PAC, EC-SLI, ...) and all collections
  - GLM/GHM runs can run in parallel to central beam line  $\rightarrow$  negative effect on shifts for physics
- 2 power cuts (2<sup>nd</sup> Sep., 17<sup>th</sup> Oct.) during HIE-ISOLDE run → followed by several shifts of recovering everything before runs could resume in good conditions
- Several runs on HRS using RILIS experiences instable beam (unclear reason, no problem on GPS)
- IS702 (132SnS for Miniball) was cancelled before it started due to target problems
- Missing mass marker for CRIS run, required ad-hoc target change
- On top of the several issues with targets, beam instrumentation, REX/HIE-ISOLDE, ...
  - 9-Gap
  - Cavities tripping (intervention)
  - Target degrading
  - Broken of tape in tapestation
  - Faraday cups breaking

I've added contingency time in schedule, especially since September



## Statistics 2024 (cut-off 22<sup>nd</sup> October)

	Experiments	LOIs	Coordinator's Reserve	Total
Scheduled runs	32 runs, 30 distinct IS-numbers, (9 HIE-ISOLDE)	10	7	49/47 distinct
Runs which received beam	28 runs, 26 distinct IS-numbers, (8 HIE-ISOLDE)	6	7	41/39 distinct
Scheduled shifts	342 (123 HIE-ISOLDE)	36	42	420
Counted shifts	224 (83 HIE-ISOLDE)	25	Not applicable	249
Delivered shifts	260 (89 HIE-ISOLDE)	29	52	340

- Coordinator's Reserve: Ad hoc measurements after issues, beam development during period where no run could be scheduled, extended stable beam for commissioning of detectors (should be LOI ...), ...
- Difference between counted and delivered shifts: run longer (start early, ... ) than foreseen, shifts for CR can not be counted
- Reference full year 2023 (~2 weeks shorter than 2024)
  - 63 runs, 50 distinct IS/LOI (10 HIE-ISOLDE)
  - 518 (148 HIE-ISOLDE) scheduled, 424 (122 HIE ISOLDE) counted and 490 delivered shifts