



Photo: CERN 2004

ISOLDE coordinator report



INTC 75 summary

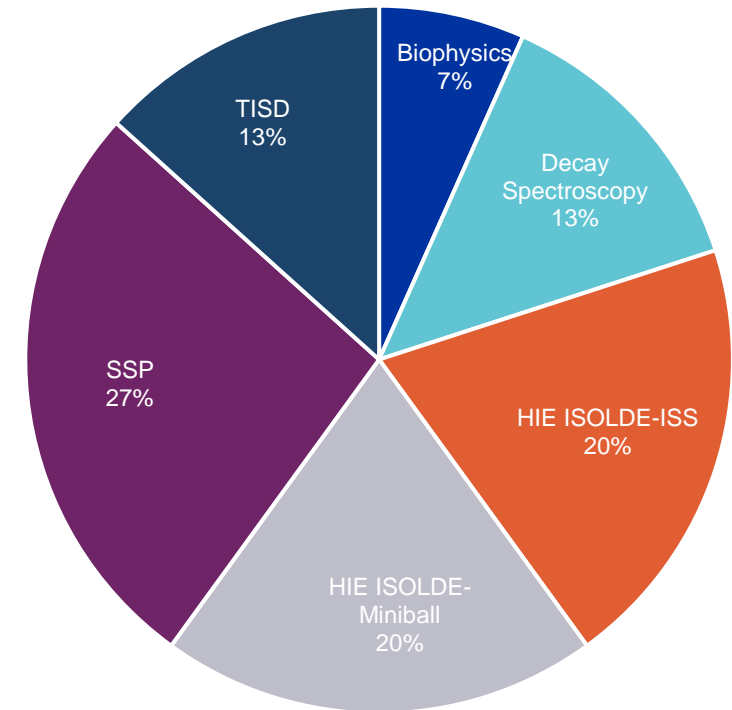
1 shifts = 8 hours; 1 day~ 1×10^{17} protons

| | # of documents | Requested shifts | Requested protons |
|-------------------------|----------------|------------------|-------------------|
| ISOLDE | 15 | 240 | 0 |
| Addendum | 1 | 14 | 0 |
| Letter of Clarification | 1 | 18 | 0 |
| Letter of intent | 2 | 12 | 0 |
| Proposal | 11 | 196 | 0 |
| nTOF | 6 | 0 | 1.9E+19 |
| Addendum | 1 | 0 | 4.7E+18 |
| Letter of intent | 2 | 0 | 3.4E+18 |
| Proposal | 3 | 0 | 1.1E+19 |
| Grand Total | 21 | 240 | 1.9E+19 |

→ 206 of 240 shifts were approved for ISOLDE (full or partial endorsement)

ISOLDE

Distribution of submitted documents per topic

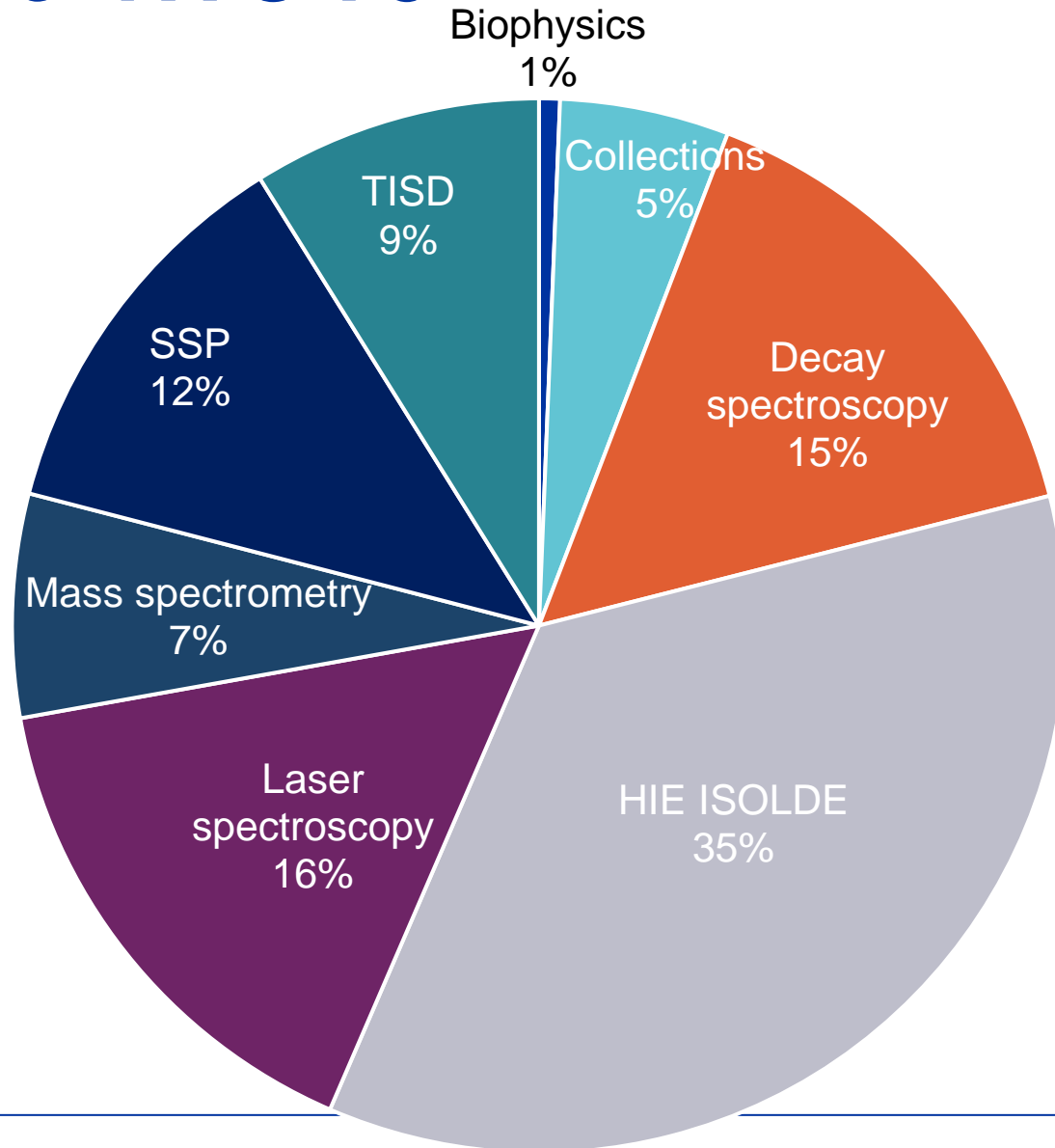


ISOLDE backlog before INTC 75

- ~1300 open shifts
- ~150 active experiments

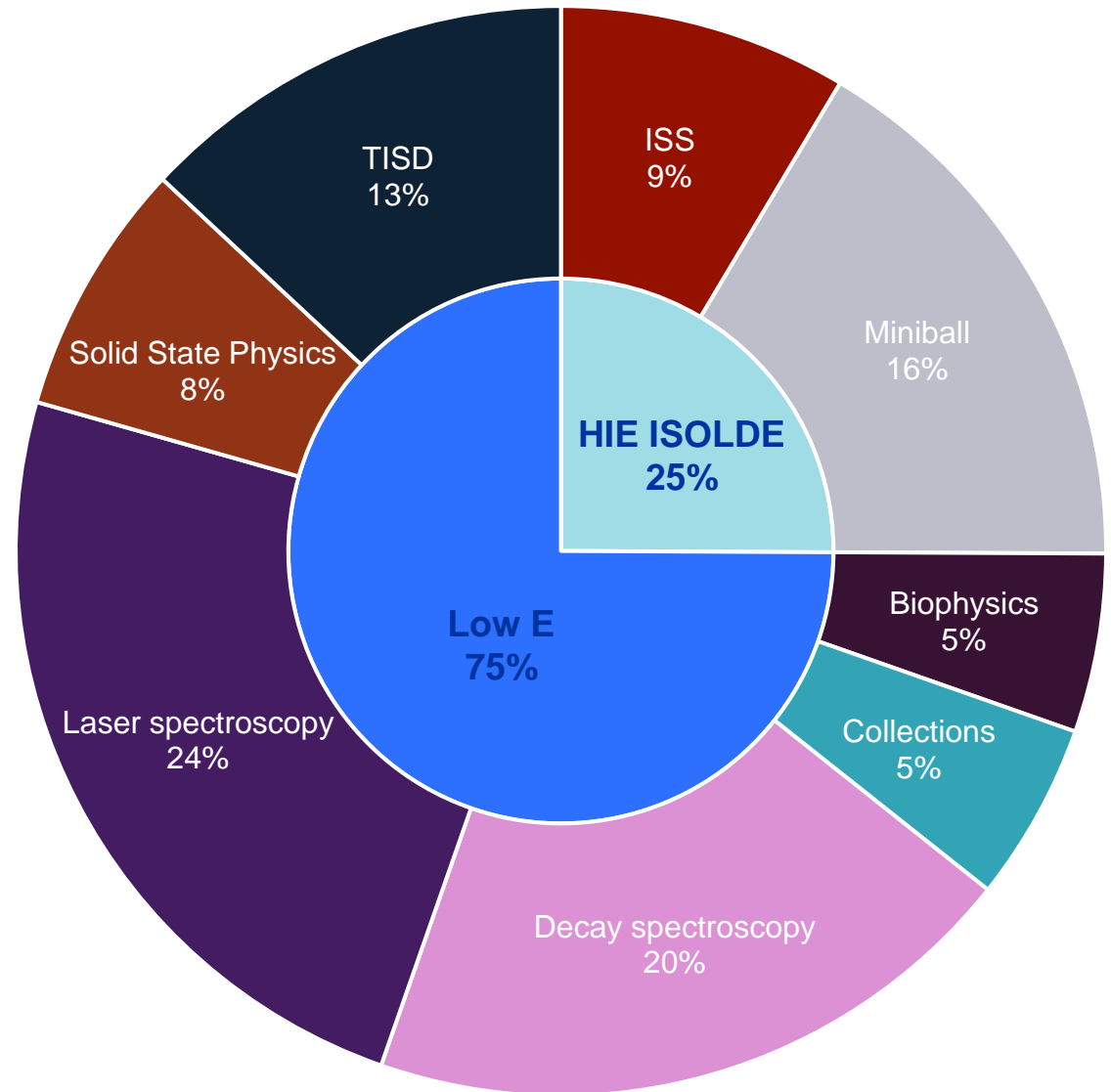
First experience scheduling:

- Despite backlog, not so easy to find candidates for April



ISOLDE schedule 2023

- 493 shifts were delivered, reducing the backlog by 426 shifts.
- 67 shifts (=13.5%) available for ad-hoc opportunities (extension of beam times, alternative measurements in case of failures, etc.)



Winter physics

- **IS672**
 - Preparation for absolute charge radii measurement of ^{108}mAg via muonic x-ray spectroscopy at PSI
 - Sample irradiated at PSI inserted in ISOLDE target
 - Determine best conditions to separate ^{110}mAg from the contaminants
- **IS725**
 - ^{226}Ra in several materials \rightarrow transport to MPIK for detector characterization in the context of the XENON and DARWIN/XLZD direct dark matter search experiments.
 - Didn't collect required activity, but nevertheless positive experience. Will come back.

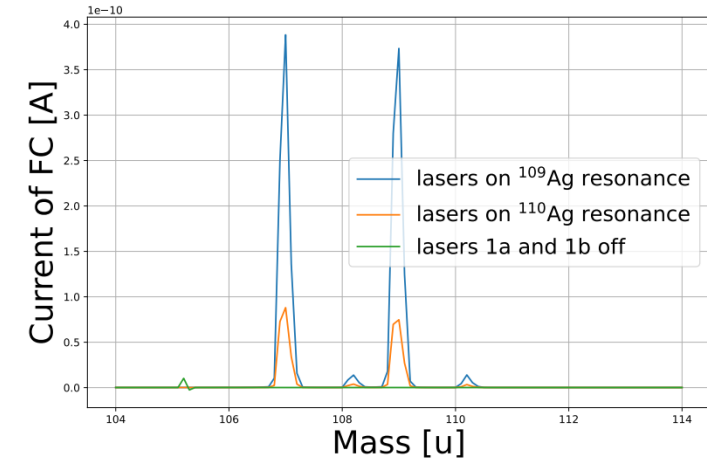
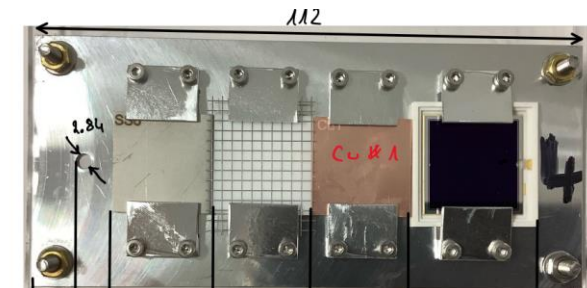
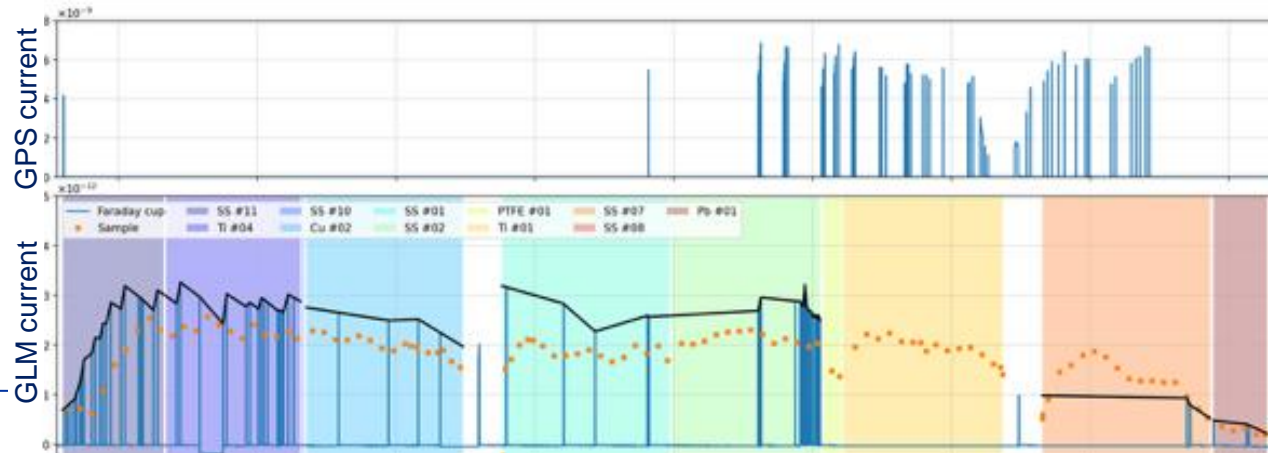
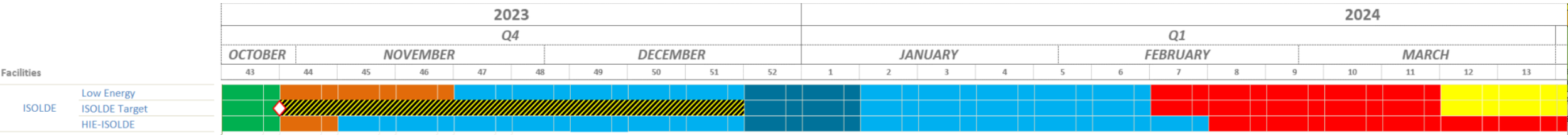


Figure 4: Mass scans for the lasers on the ^{109}Ag and ^{110}mAg resonances as well as without lasers. The target and line temperature equals 0A and 260A, respectively.



Material provided by F. Joerg, G. Volta

Yearly Technical Stop (YETS) and 2024 Restart



Key dates

- 30th October 2023 – End of proton physics and start of winter physics
- 6th November 2023 – End of HIE winter physics (1 wk)
- 20th November 2023 – End of Low Energy winter physics (3 wks)
- 19th February 2024 – Start of Target, Low E and HIE ISOLDE HW Commissioning
- 18th March 2024 – Start of Target and Low E Beam commissioning (first protons to ISOLDE 28th March. SEMGRID tests 28th March – 8th April)
- ➔ • **8th April 2024 – End of the Low E and Target Beam Commissioning / Start of Low E Physics**
- 13th May 2024 – Start of HIE-ISOLDE Beam Commissioning
- 21st June 2024 – HIE ISOLDE stable beam to exp. Stations
- ➔ • **11th July 2024 – Start of HIE ISOLDE Physics**
- ➔ • 28th October 2024 – End of protons

Cleaning of ISOLDE

- NICOLE removal continued
- B. 275 → Thanks, Liss!
- Generally, good cooperation 😊
- Temporary storage in b. 263

