

TSR @ISOLDE

Collaboration issues

Proposed Agenda:

- 1) TSR@ISOLDE Collaboration**
- 2) Planning**
- 3) Working groups**
- 4) Next steps**

1) TSR@ISOLDE Collaboration

7 TSR@HIE-ISOLDE Collaboration

The present proposal on a storage ring facility at HIE-ISOLDE brought together 125 scientists from 44 institutions located in 19 countries, who form the TSR@HIE-ISOLDE Collaboration.

The organization of the collaboration foresees the following administrative posts: a Spokesperson and two Deputy Spokespersons, the Physics Coordinator and a Deputy Physics Coordinator, a TSR Technical Coordinator and an ISOLDE Technical Coordinator, an ISOLDE Contact Person, and a HIE-ISOLDE Contact Person. At the time of submission of the present proposal, these positions are filled as follows:

Spokesperson	Klaus Blaum
Deputy Spokesperson	Riccardo Raabe
Deputy Spokesperson	Phil Woods
Physics Coordinator	Peter Butler
Deputy Physics Coordinator	Yuri A. Litvinov
TSR Technical Coordinator	Manfred Grieser
ISOLDE Technical Coordinator	Erwin Siesling
ISOLDE Contact Person	Yorick Blumenfeld/Maria Borge
HIE-ISOLDE Contact Person	Fredrik Wenander

1) TSR@ISOLDE Collaboration

Furthermore, the collaboration has a Board which consists of the persons serving at the above administrative posts and of two conveners from each of the physics cases proposed in the present proposal. At the time of submission of the present proposal, the following were serving as conveners:

Reaction Experiments

Atomic Physics Experiments

Astrophysics Experiments

Neutrino Experiments

Atomic Effects on Nuclear Lifetimes

Isomeric Beam Experiments

Dielectronic Recombination on Exotic Nuclei

Laser Spectroscopy

Peter Egelhof & Dennis Mücher

Daniel Savin & Stephan Schippers

Shawn Bishop & Rene Reifarth

Thierry Stora & Christina Volpe

Fritz Bosch & Takayuki Yamaguchi

George Dracoulis & Phil Walker

Carsten Brandau & Andreas Wolf

Kieran Flanagan & tba

TSR@HIE-ISOLDE is an open collaboration and new conveners will join in the Board if new physics cases are proposed at a later time.

→ We need more specific numbers and 2-3 key experiments!

3) Working groups

Working Group	Participating Institutions
Electron Cooler / Electron Target	MPIK / Uni Giessen / CERN
Gas Target	MPIK / Uni Frankfurt / UK Universities
Diagnostics	MPIK / GSI
Setup & Commissioning	MPIK / CERN
Control System	CERN
Particle Detectors	TU Darmstadt / TU Munich / GSI / KU Leuven / UK Universities
EBIT/S & Injection / Extraction	MPIK / CERN

- **Contact persons for the integration team.**
- **Work needs to be done concerning targets, detectors, diagnostics, EBIT, ...**

4) Next steps

Mandate of the TSR Integration Study Working Group (Paul Collier)

Membership

The members of the working group are E. Piselli, E. Siesling and F. Wenander. They will involve CERN specialists as and when necessary.

Reporting

The working group will report to the Director of the Accelerator and Technology Sector and for technical matters on progress to the IEFC

Milestones

A report summarizing the integration study will be submitted to the Director of the Accelerator and Technology Sector by Q3 2013.

4) Next steps

Mandate of the TSR Integration Study Working Group

A report covering the following aspects should be prepared:

- An inventory of all equipment to be brought to CERN for installation.
- Initial estimates for the infrastructure needed for the ring and its transfer lines. This should include the overall space, power, cooling and safety needs. It should not include a detailed design of these systems.
- For each system a brief study of the equipment to be installed should be undertaken after discussion with the experts in Heidelberg and the concerned CERN groups. This study should include:
 - The issues associated with the integration of the equipment into the CERN accelerator environment.
 - The spare situation for the equipment together with any issues or recommendation concerning additional spares.
 - A radiological assessment of the equipment in collaboration with RP.
 - The control system presently used for the system and whether the control hardware must be replaced to meet CERN standards.
 - Any specific costs associated with the initial installation, or the modification to meet CERN standards should be estimated.
- Any other information or issues for the integration of the TSR at CERN.

A lot of work for the integration group and people from MPIK (Manfred).