

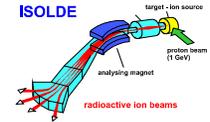
Status ICP February 2003

Mats Lindroos

Mats Lindroos

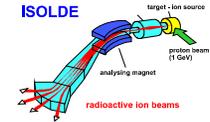


ISOLDE consolidation



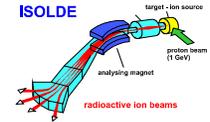
Why?

- To bring the level of radiation safety to a level compatible with European legislation
 - Financed by CERN
- To migrate technical standards to AB standards and undertake urgent repairs
 - Financed by CERN and the ISOLDE collaboration
- To improve beam quality
 - Financed by the ISOLDE collaboration



Class A Laboratory

- Class A laboratory:
 - Status:
 - Planning in progress
 - Milestones:
 - Decision by Management before end of February
 - Completion by 1 October 2004
 - Budget from CERNT:
 - Total: 594 kCHF in ICP budget
 - Committed: 0 kCHF
 - Comment:
 - Total cost for building: 1200 kCHF (cheapest option)
 - Hot cell and second off-line separator required in foreseeable future
 - Responsible: Richard Catherall

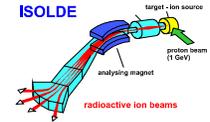


Radioactive lab (Bat 170)

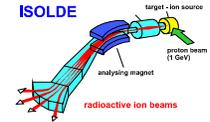
- Radioactive lab:
 - Status:
 - Finished except new monitors
 - Milestones:
 - Operational from 31 March 2003
 - New hand and foot monitors installed: 1 December 2003
 - Budget from CERN:
 - Total: 410 kCHF
 - Committed: 390 kCHF
 - Responsible: Mats Lindroos and Thomas Otto



Robots

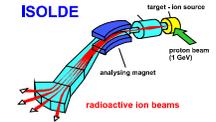


- New target handling robots:
 - Status:
 - Completed and operational
 - Budget from CERN:
 - Total: 150 kCHF
 - Committed: 160 kCHF
 - Responsible: Richard Catherall



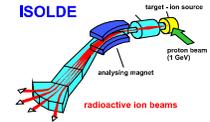
Front-end 4

- Front end 4:
 - Status:
 - Completed and operational
 - Budget from CERN:
 - Total: 150 kCHF
 - Committed: 228 kCHF
 - Budget from the ISOLDE collaboration
 - Total: 150 kCHF
 - Committed: 150 kCHF
 - Responsible: Stefano Marzari



Front-end 5

- Front-end 5:
 - Status:
 - In progress
 - Milestones:
 - End development: 1 June 2003
 - All drawings ready: 1 June 2003
 - Manufacturing, assembly and test: 1 January 2004
 - Ready for installation: 1 March 2004
 - Budget from CERN:
 - Total: 300 kCHF
 - Committed: 18 kCHF
 - Responsible: Stefano Marzari

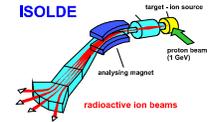


Off-line facilities

- Off-line facilities:
 - Status:
 - In progress
 - Milestones:
 - Completion by: 28 February 2003
 - Budget from CERN:
 - Total: 360 kCHF
 - Committed: 347 kCHF
 - Responsible: Jacques Lettry



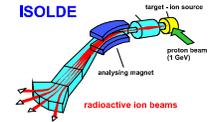
HRS



- HRS:
 - Comment:
 - Existing pool face windings restricted to corrections for masses below 13 due to “unexpected” field suppression from iron yoke
 - Status:
 - In progress
 - Milestones:
 - Emittance meters for 2004 run
 - Study of external correctors and pool face shaping (simple) for 1 June 2003
 - Implementation of possible improvement for run in 2004
 - Budget from ISOLDE collaboration:
 - Total: 300 kCHF
 - Committed: 5 kCHF
 - Responsible: Tim Giles and Thomas Fritioff



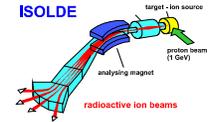
RFQ cooler



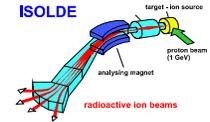
- RFQ cooler:
 - Status:
 - In progress
 - Milestones:
 - Specification and budget for 15 March 2003
 - Drawings for 1 October 2003
 - Assembly complete for 1 March 2004
 - Off line tests finished 1 November 2004
 - Commissioning 1 March 2005
 - Budget from the ISOLDE collaboration:
 - Total:
 - Committed:
 - Responsible: Ari Jokinen and Ivan Podadera



RILIS



- RILIS:
 - Status:
 - In progress
 - Milestones:
 - Laser beam diagnostics - mid 2003
 - CVL beam guidance (screening of the laser beams) - mid 2003
 - Automated beam positioning - mid 2004
 - Automated laser power monitoring - mid 2004
 - Budget from the ISOLDE collaboration:
 - Total: 220
 - Committed: 110 kCHF
 - Responsible: Valentin Fedosseev

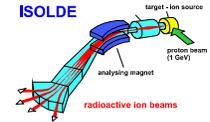


Beam Transport

- Beam transport:
 - Status:
 - In progress
 - Milestones:
 - Emittance measurements in Off-line period
 - Documentation and proposal by 1 July 2003
 - Budget from the ISOLDE collaboration:
 - Total: 140 kCHF
 - Committed: 140 kCHF
 - Responsible: Fredrik Wenander and Tim Giles



Controls



- Controls:
 - Status:
 - First phase completed
 - Second phase in progress
 - Milestones:
 - Conception of RFQ cooler control 1 March 2003
 - Stepping motor controls 23 March 2003
 - Tape station control 23 March 2003
 - Migration of console software 1 January 2004
 - Controls scanners and grids 1 March 2004
 - Budget from CERN:
 - Total: 330 kCHF
 - Committed: 260 kCHF
 - Responsible: Franck Locci

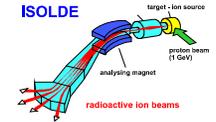
Mats Lindroos



Noble gas trap



- Noble gas trap:
 - Status:
 - Cancelled
 - Comment:
 - Possible revival with EU (I3NS) SAFERIB proposal

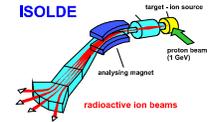


Tape station hardware

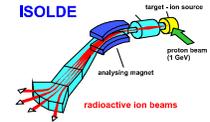
- Controls:
 - Status:
 - In progress
 - Milestones:
 - Definition 24 February 2003
 - Budget from ISOLDE collaboration:
 - Total:
 - Committed:
 - Responsible: Gerrit Jan Focker and Philippe Dessange



Power



- Controls:
 - Status:
 - Phase 1 completed
 - Phase 2 in progress
 - Milestones:
 - Beam line power supplies 3500 V: 23 March 2003
 - Repeller voltage power supply: 23 March 2003
 - Control for 24 V power supply: 23 March 2003
 - Budget from CERN:
 - Total: 435 kCHF
 - Committed: 347 kCHF
 - Responsible: Jean-Pierre Royer

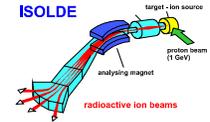


Instrumentation

- Instrumentation:
 - Status:
 - In progress
 - Milestones:
 - Definition for 31 March 2003
 - Spare instrumentation
 - New low level control
 - Migration of console software to JAVA
 - Emittance meter electronics and control
 - Tape station
 - Budget from CERN:
 - Total: 132 kCHF
 - Committed: 22 kCHF
 - Responsible: Gerrit-Jan Focker



Proposed CERN budget 2003-2004



Sub-project:	Budget Code	Approved budget 1/1/2002	Spent 1/2/03	Plan 2003	Plan 2004
2.1 Class A lab	67542	594	0	155	439
2.2 Radioactive lab	67536	410	386.096	20	0
2.3 Robots		150	159.697	0	0
3.1a Front end 4		170	222.709	0	0
3.1b Front end 5	67537	300	18.053	150	150
3.2 Off-line facility	67538	360	346.571	15	0
3.3a HRS					
3.3b RFQ cooler					
3.4 RILIS					
3.5 Beam Transport					
3.6 Controls	67539	330	257.39	30	0
3.7 Noble gas trap					
3.8 Tape station					
3.9 Power	67541	435	346.524	55	0
3.10 Instrumentation	67540	132	22.187	55	55
Project associate, ...	67535	300	197.375	60	40
Total:		3181	1956.602	540	684

Mats Lindroos