

Status of HIE-ISOLDE Project

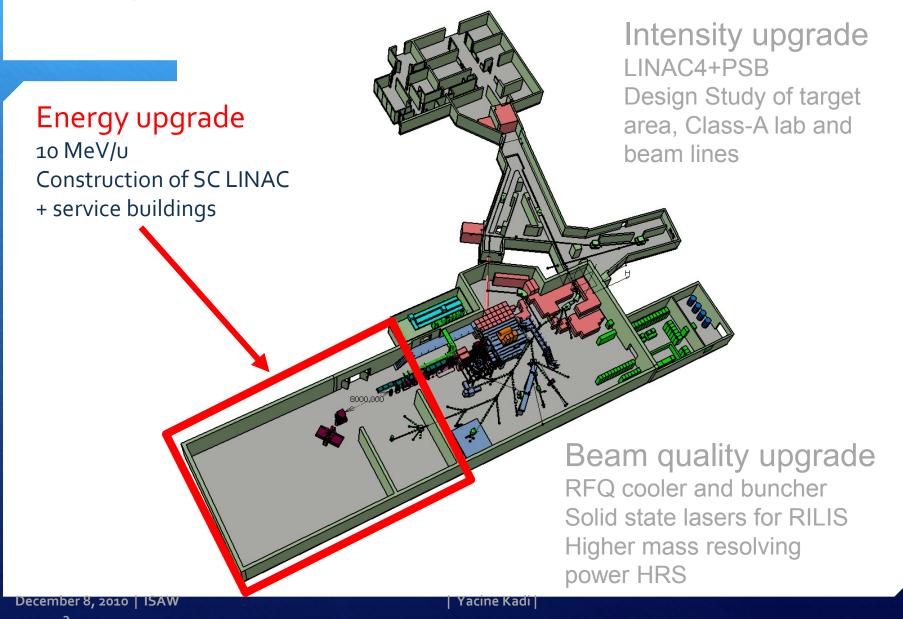
Yacine Kadi on behalf of the HIE-ISOLDE project team ISOLDE Workshop and Users Meeting, 8-10 December 2010

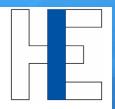


Outline

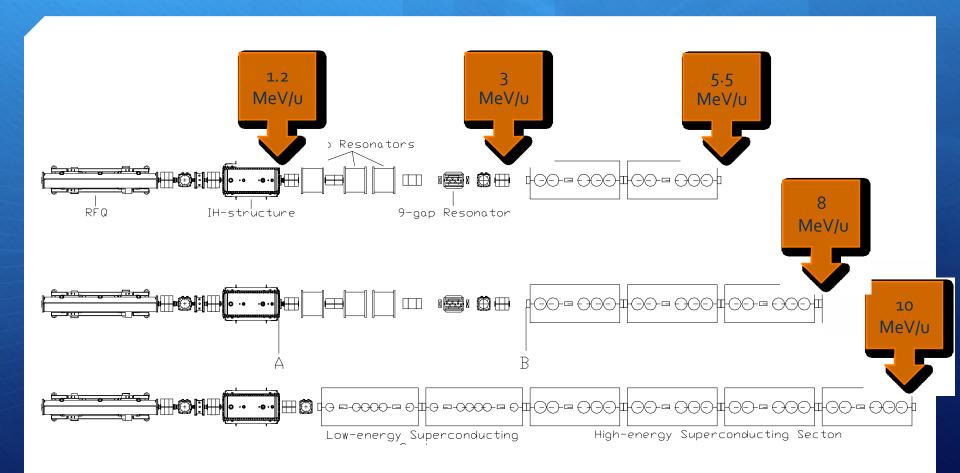
- + Project Status
- → M&P Budgets
- + New Planning
- + Summary

Upgrade of the present ISOLDE Facility



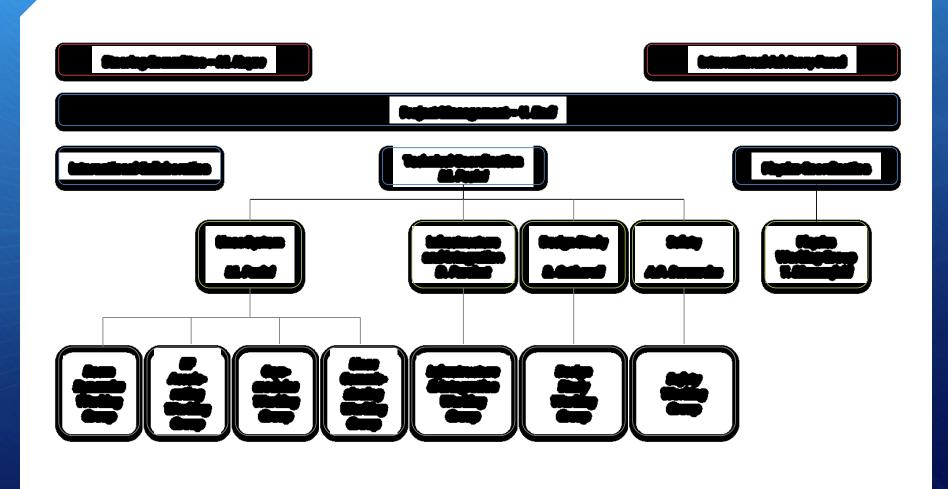


HIE-ISOLDE LINAC - Modular Installation





Project Structure





Project Status

- + New website in place http://hie-isolde.web.cern.ch
- + Project included in MTP 2010 **Approved** by Council -> Sep. 2010
 - + Planning shift
 - + Revised budget/resources
- CATHI Project signed
 - + Start Nov.1 2010
 - + Fellows by Feb. 2011
- + Submission of Spanish Grant proposal
 - + 2 projects within "Industry for Science Program" => 250 k€, 4FTE => APPROVED
 - + MiCINN project => 998 k€, 1FTE => not retained
- Interregional Program IV A of the European Union
 - + Construction of a fully equipped low-beta cryomodule prototype => 600 k€ => APPROVED
- + New Cavity RF tests taking place @ SM18
- + 2nd prototype cavity (slightly modified) in preparation
- New layout of the facility almost frozen (new buildings)



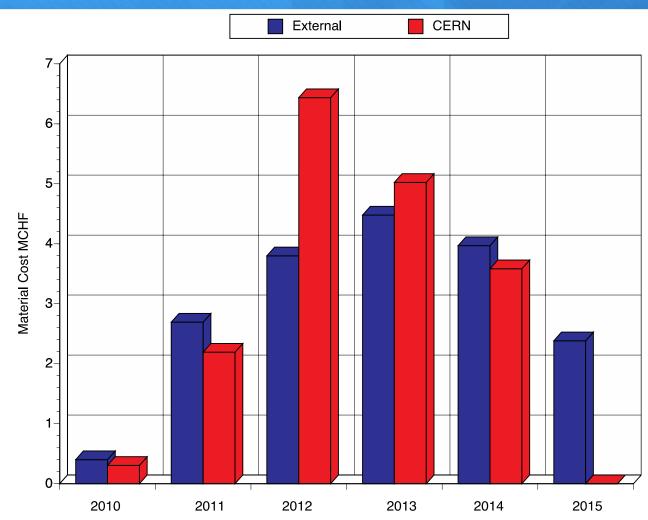
Material Budget

Total remaining material budget of 35.3 MCHF shared between(2010 – 2016):

- + External funding
 - + LINAC (17.7 MCHF)
- + CERN budget
 - + Infrastructure (14.7 MCHF)
 - + Design studies for intensity upgrade (2.1 MCHF)
 - + Safety (o.8 MCHF)



Material Budget





Personnel budget

- + CERN Staff
 - ✓ Resources defined by group leaders (105 FTE over 5 years)
- + Fellows (70 FTE)
 - ✓ 5 FTE paid on departmental budget

 - ✓ 56 FTE paid by ITN3 Marie Curie Contract (20 fellows)



Fellow/PhD funded by IS Coll.

- + Mathew FRASER (PhD, BE/RF) : beam dynamics
- + Francesca ZOCCA (fellow, BE/BI): beam instrumentation
- + Mathieu THERASSE (fellow, BE/RF): SC cavity RF
- + Yuriy ROMANETS (UPAS from ITN Lisbon, EN/STI): RP studies
- + Yann LECLERQ (fellow, TE/MSC): cryomodule design



CATHI Open Positions (until Jan. 4 2011)

- + ESR2: Cavity and Cryomodule tests
- + ESR4:New Magnet
- + ESR5: Development and participation to the integration studies
- ESR6:Development and participation to the control, alignment and positioning metrology
- + ESR8:Target material studies
- + ESR13:Cooling and Ventilation Design Study
- + ESR14:Design study of the vacuum system for the Front End of the Isolde facility



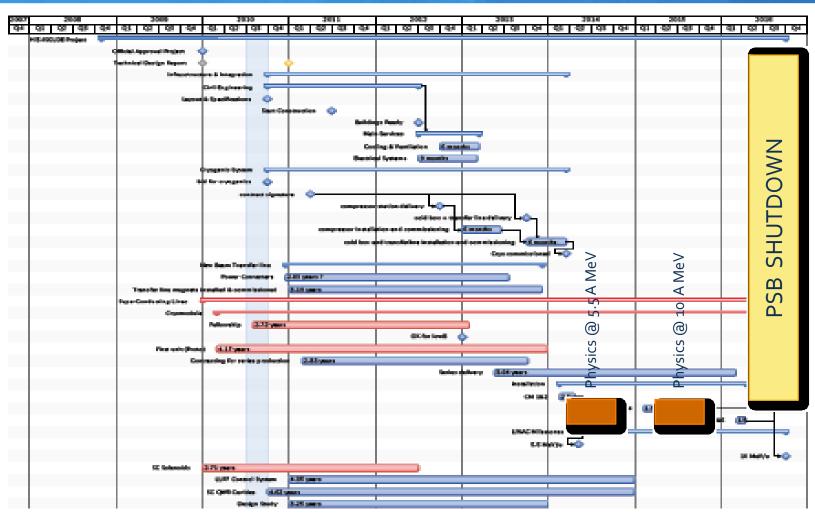
CATHI Positions to be opened Feb. 2011

- + ESR₃: R&D on solid state detectors
- + ESR9: Target conceptual design#1
- + ESR10: Target conceptual design#2
- + ESR11: Extraction optics and front-end design
- + ESR₁₂: Low-level controls
- + ESR15: Off-line separator and High-resolution separator magnet
- + ESR16: RFQ cooler and pre-separator
- + ER3: Design study of a replacement charge breeder for REXEBIS
- + ER4: Safety and Radiation Protection

December 8, 2010 | ISAW



HIE-ISOLDE Schedule

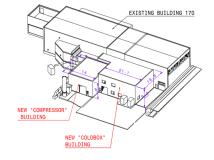




Summary

- + SC Cavity prototype cold tests @ SM18
- + New SC cavity with modified design for sputtering tests
- + Cryostat design well underway
- + Radiation protection calculations ongoing
- + Tendering —> Civil Engineering (Mar. 2011 FC)
 Cryogenics (Mar. 2011 FC)







Thank you very much for your attention



