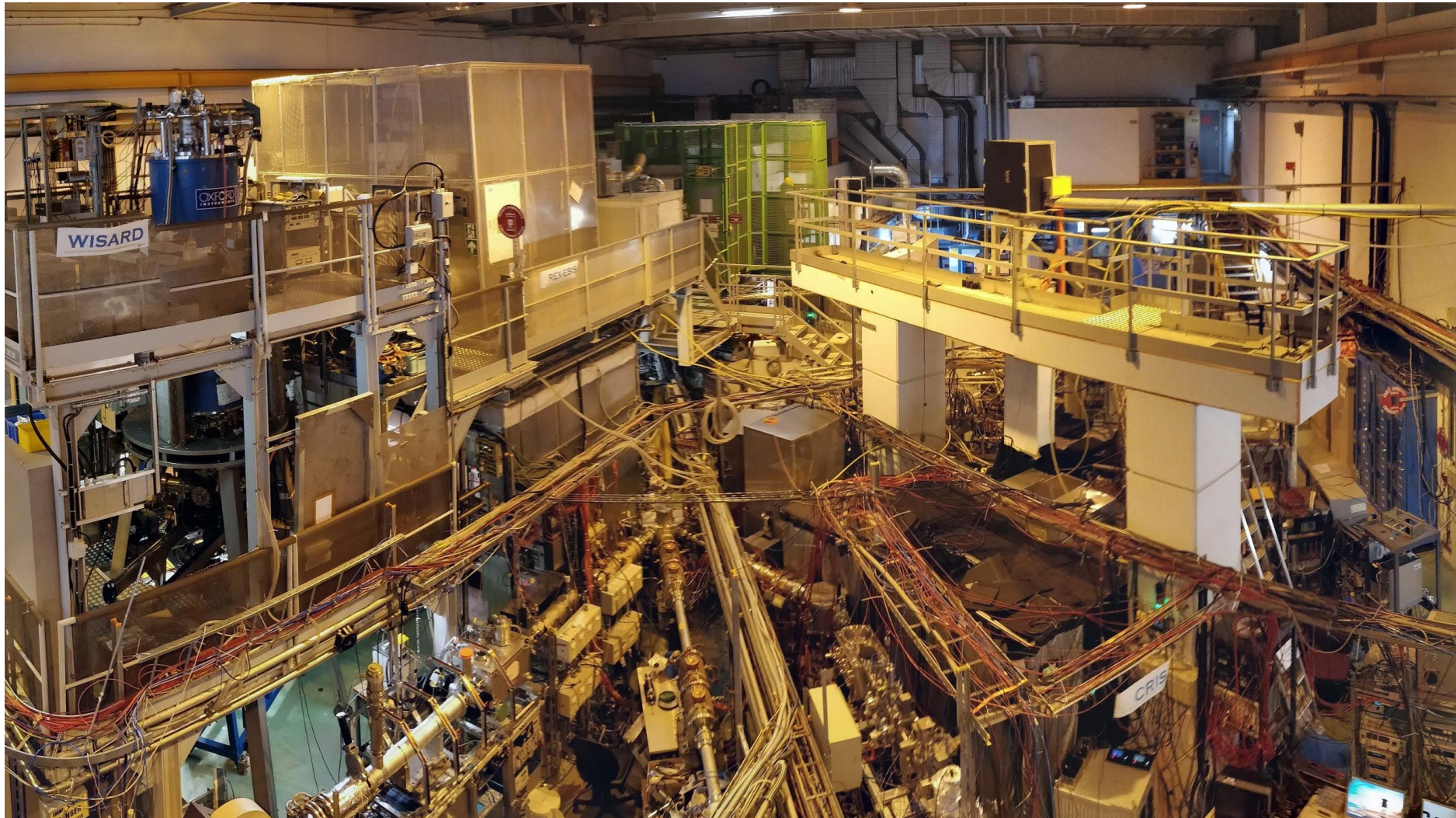


Recent Letters of Intent and space in the ISOLDE hall





CERN-INTC-2020-001 / INTC-I-208

06/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

Upgrade of the UHV-system ASPIC for the investigation of surfaces and two-dimensional materials by ultra-low energy implantation and deposition of radioactive probe atoms

[6.01.2020]



CERN-INTC-2020-003 / INTC-I-209

08/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

PUMA: antiProton Unstable Matter Annihilation

January 6, 2020



CERN-INTC-2020-007 / INTC-I-210

08/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

Upgrade and scientific programme of *LUCRECIA*, the Total Absorption Spectrometer at ISOLDE

Jan - 8th - 2020



CERN-INTC-2020-008 / INTC-I-211

08/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

eMMA - Development of an emission Mössbauer apparatus at ISOLDE for the investigation of magnetic materials

[8.01.2020]



CERN-INTC-2020-011 / INTC-I-212

10/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

MULTIPAC-Setup for γ - γ Perturbed Angular Correlation Experiments in Multiferroic (and Magnetic) Materials

January 8th 2020



CERN-INTC-2020-012 / INTC-I-213

10/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

Research plans for the laser-polarization beamline VITO at ISOLDE

8 January 2020



CERN-INTC-2020-013 / INTC-I-214

13/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

(Following HIE-ISOLDE Letters of Intent [I-119](#), [I-191](#), [I-194](#), [I-195](#) and Memorandum [INTC-M-020](#))

The SpecMAT active target

January 13, 2020



CERN-INTC-2020-015 / INTC-I-215

13/01/2020

MIRACLS- the Multi Ion Reflection Apparatus for Collinear Laser Spectroscopy of radionuclides

January 11, 2020



CERN-INTC-2020-001 / INTC-I-208

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[6.01.2020]

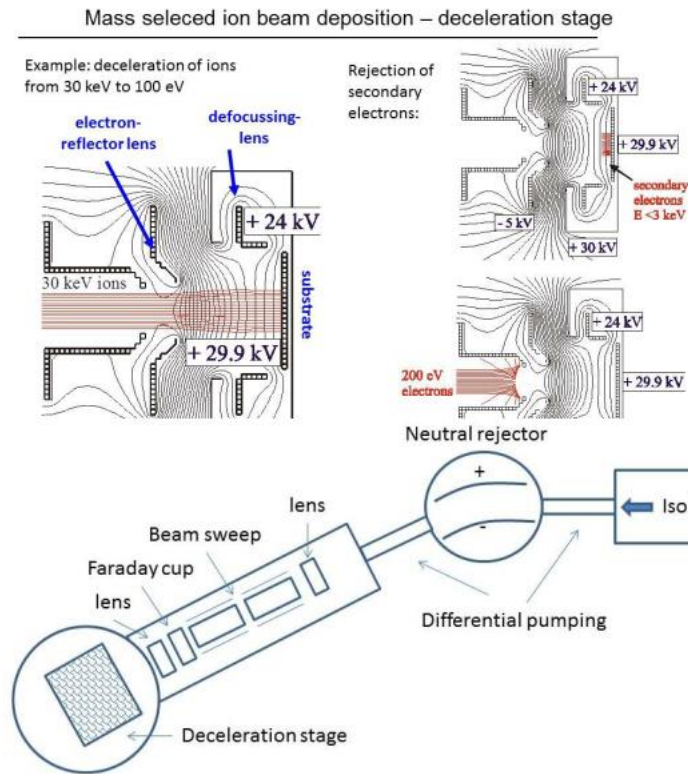
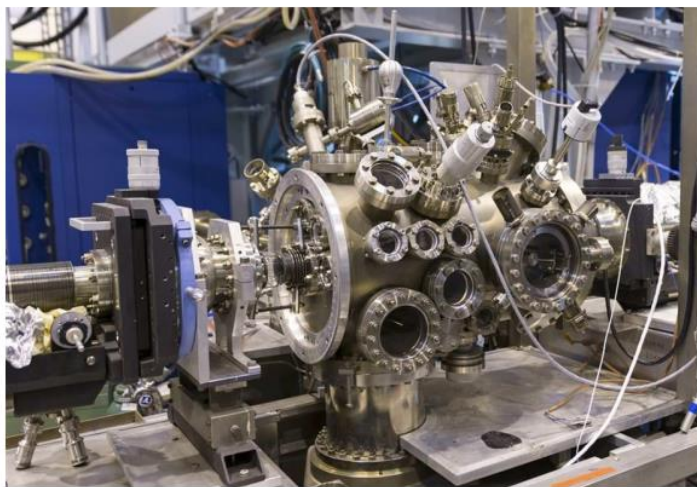
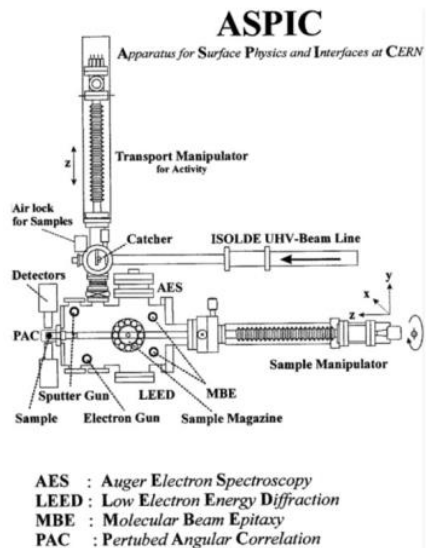


Fig.4: Sch deceleration ion beam is capable

3.1 Project related resource planning

Year	2019		2020				2021				2022	
Quarter	3	4	1	2	3	4	1	2	3	4	1	2
Simulation of the beamline and ion optics	█	█										
Construction of the beam line segment		█	█	█	█							
Refurbishment of the ASPIC UHV system	█	█			█	█						
Construction of deceleration ion optics			█	█	█	█						
Modification of the sample transfer system				█	█	█	█	█	█			
Ion optics tests at the Göttingen 30 keV beam line							█	█	█	█		
Development of process control and automatization							█	█	█	█		
Upgrade of ASPIC for Mössbauer spectroscopy								█	█	█	█	
Commissioning, test and first experiments at ISOLDE										█	█	█

Previous beamline has been uninstalled (now VITO)

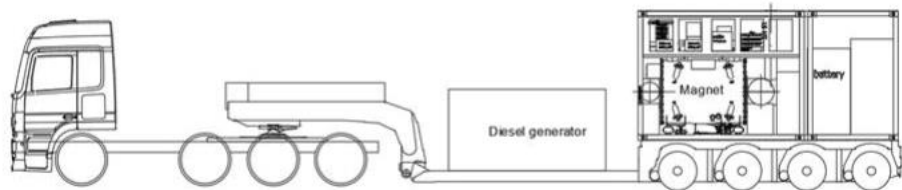
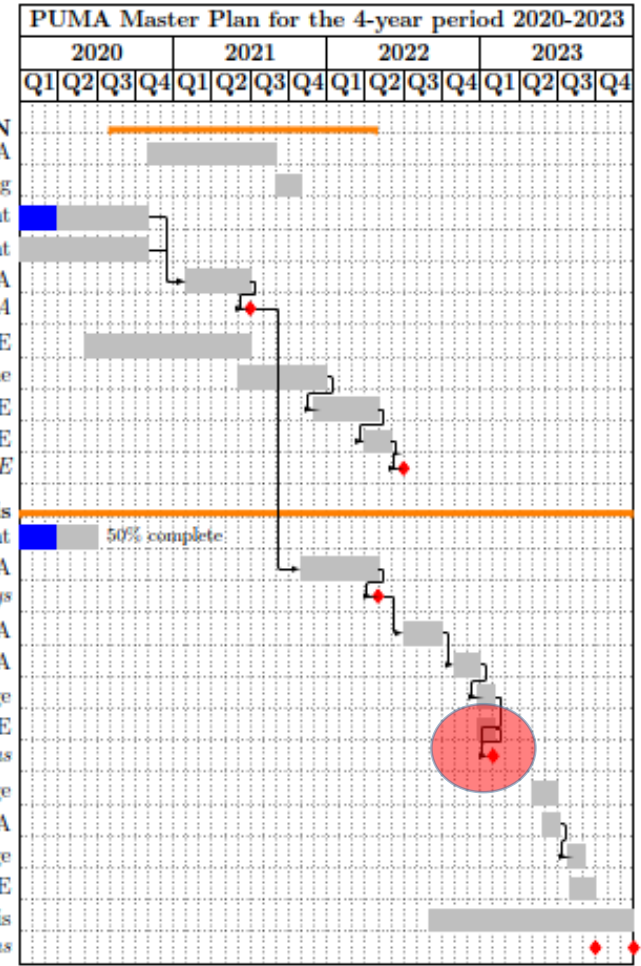
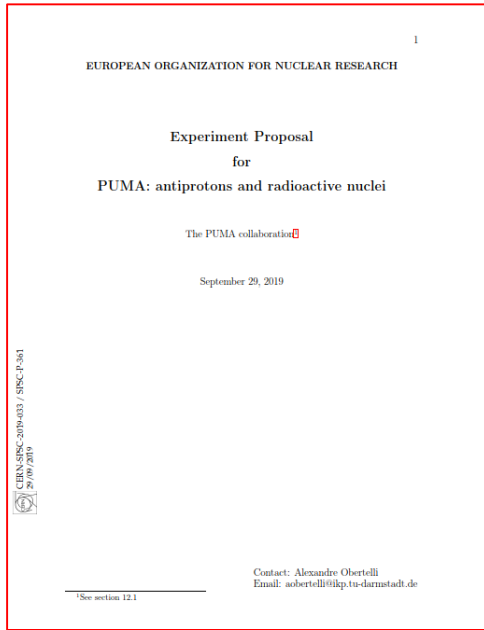
No site yet identified.



Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

PUMA: antiProton Unstable Matter Annihilation

January 6, 2020



Potential site located between NICOLE and Miniball



CERN-INTC-2020-007 / INTC-I-210

08/01/2020

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Jan - 8th - 2020

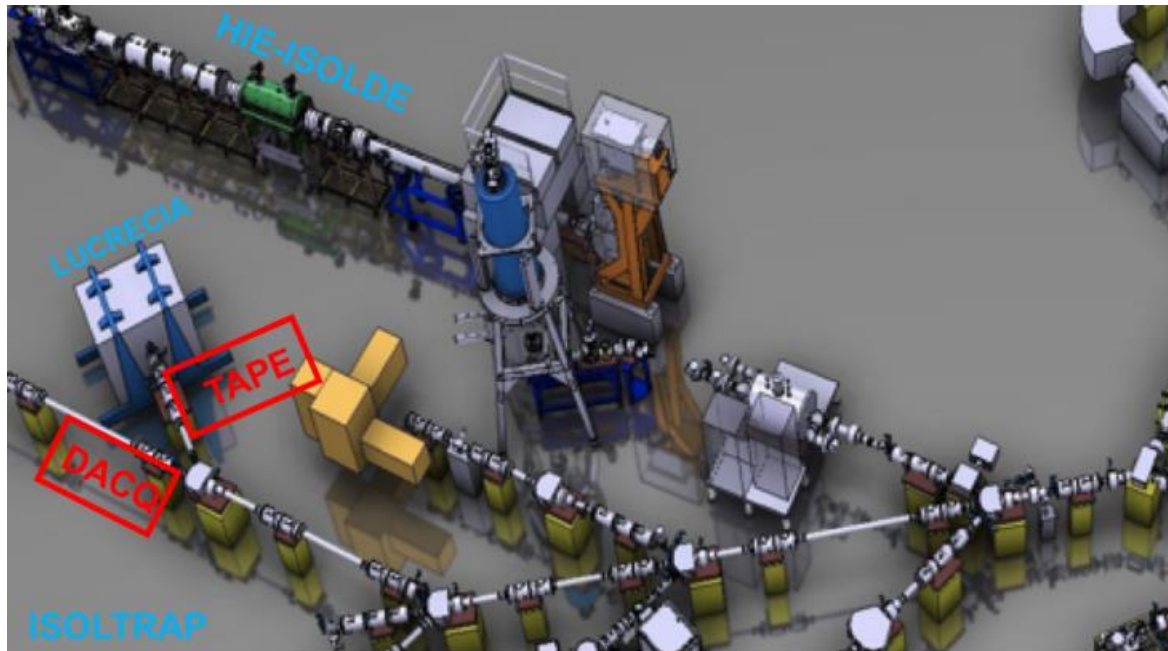
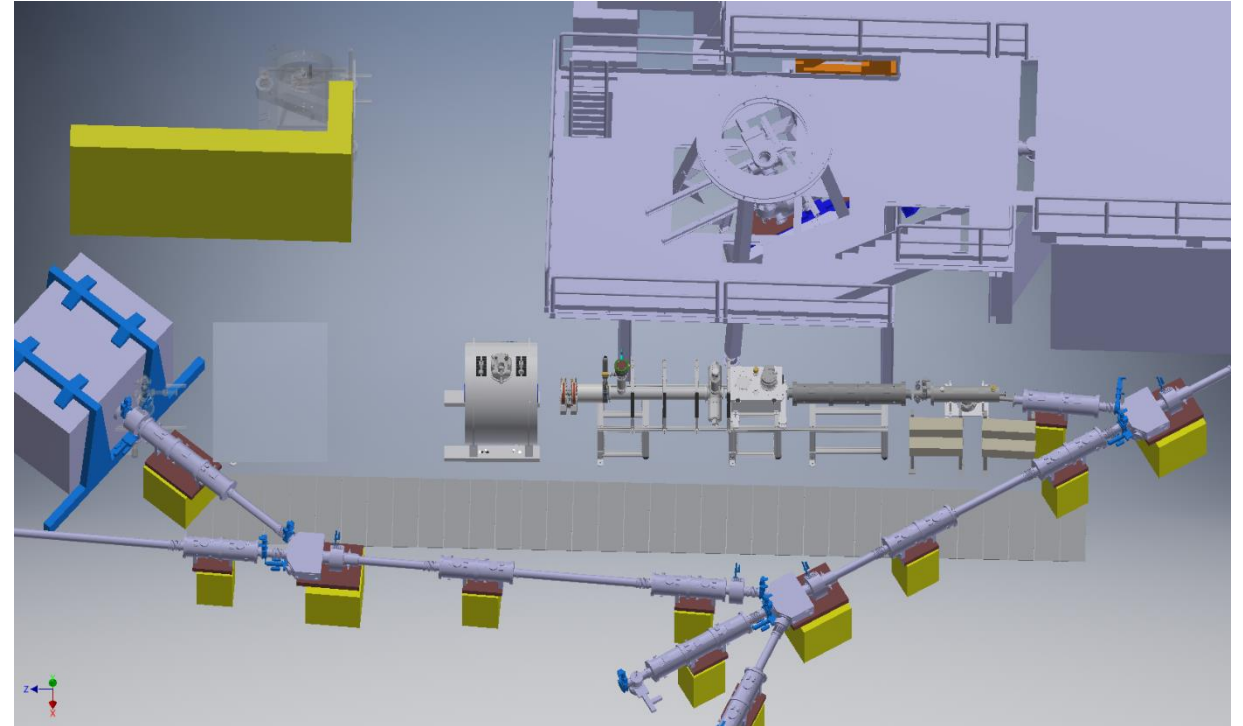
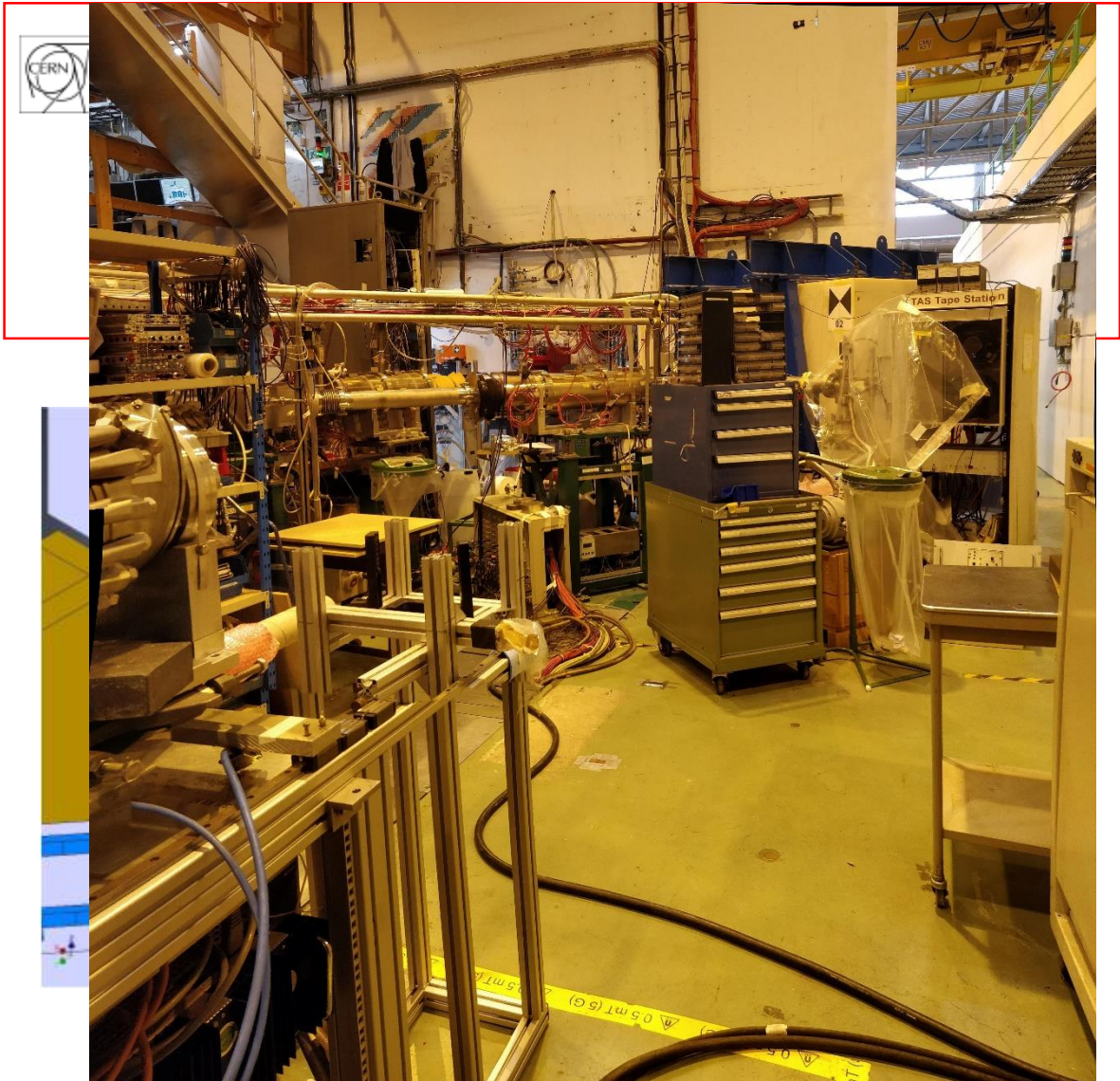


Figure 1. Areas (red, not to scale) that will be occupied by the new tape transport system and the permanent data acquisition system.



(from Enrique Nacher's talk to ISCC, 2019)

**Not much space in the area for upgrades....see hall overview later.
Upgrade foreseen 2020**

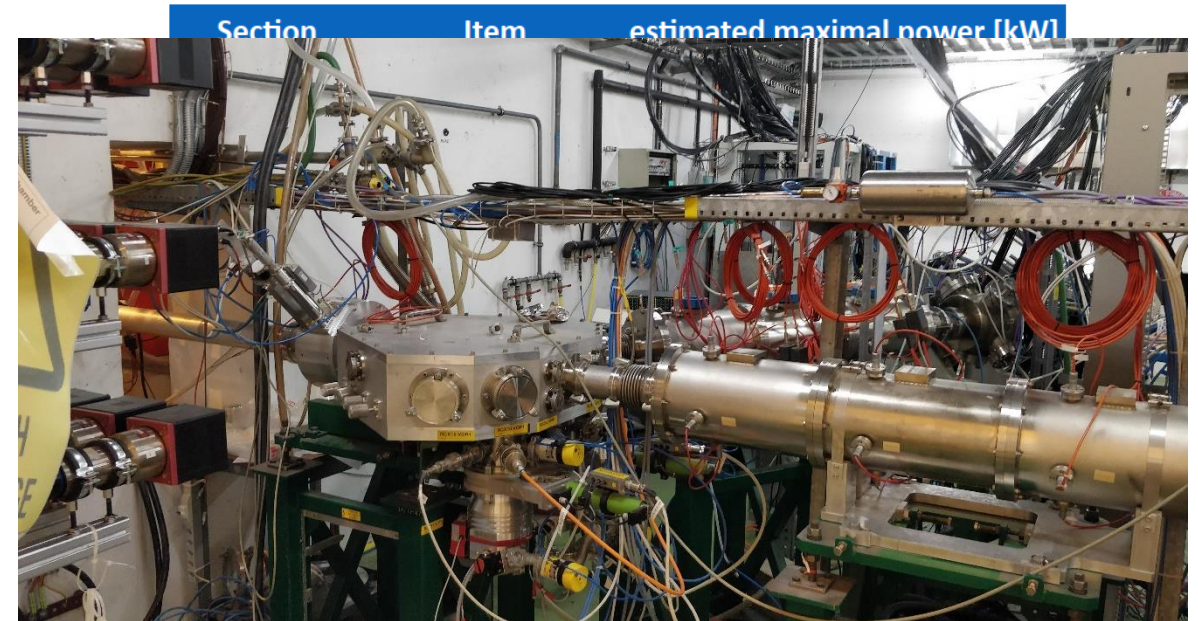
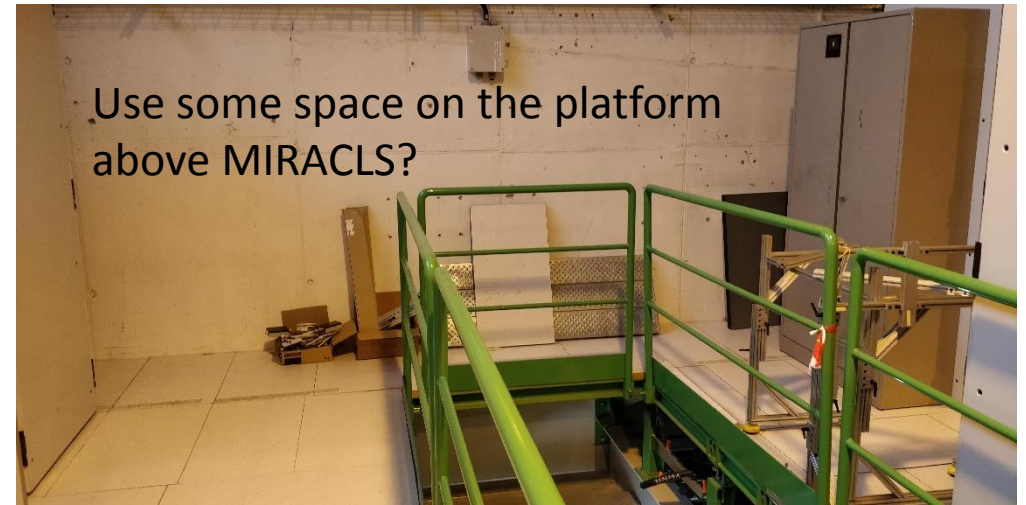
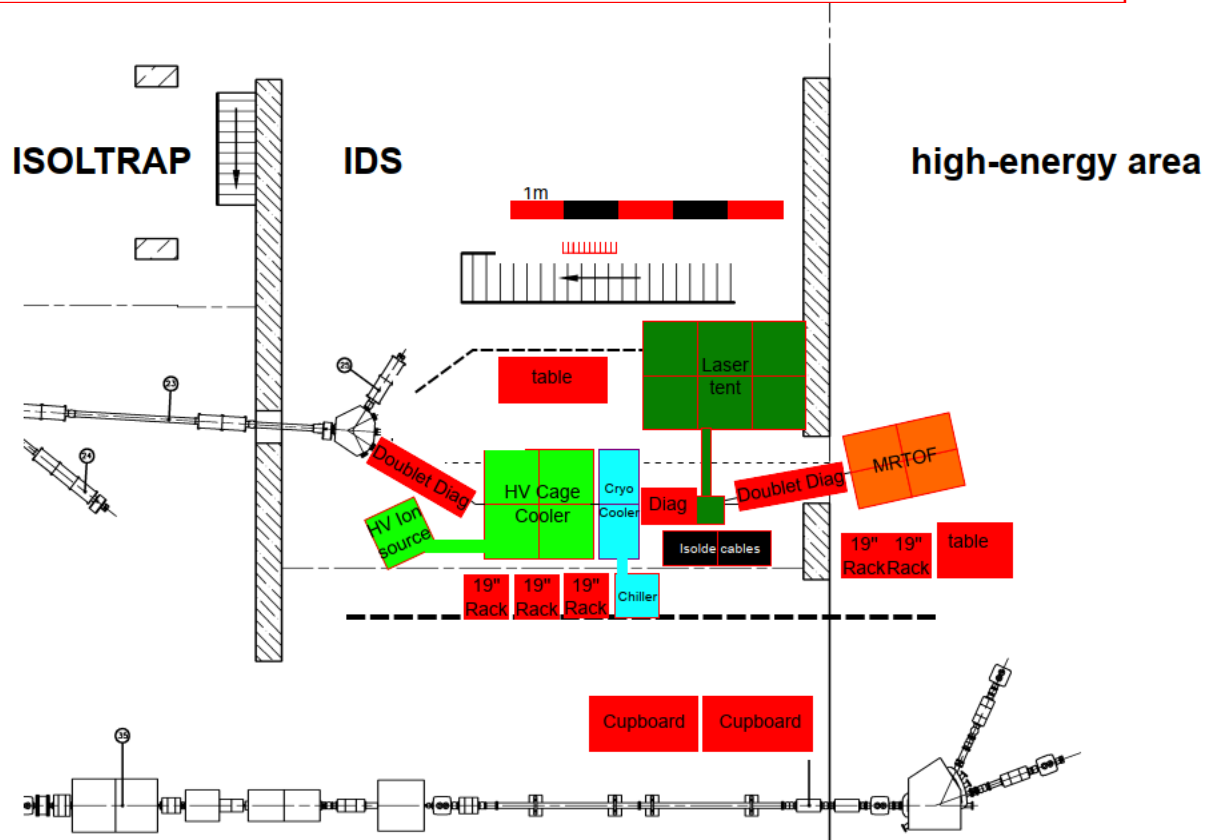


From LOI clash likely with Lucretia. Updated image from Magda...perhaps not. See talk @ 1330 for more info. Upgrades ready to take place.



MIRACLS- the Multi Ion Reflection Apparatus for Collinear Laser Spectroscopy of radionuclides

January 11, 2020



Site located: old NICOLE area...perhaps space could be optimized e.g. laser table etc. MIRACLS would be the beam preparation stage for PUMA. Work will start in Q3 2020. Needs stable beam and optics calculations



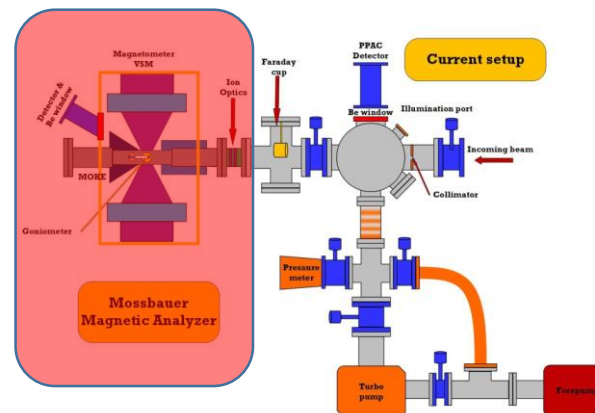
CERN-INTC-2020-008 / INTC-I-211

08/01/2020

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[8.01.2020]



Add-on to GLM line: temporary. No issues foreseen. Ready after 2022.



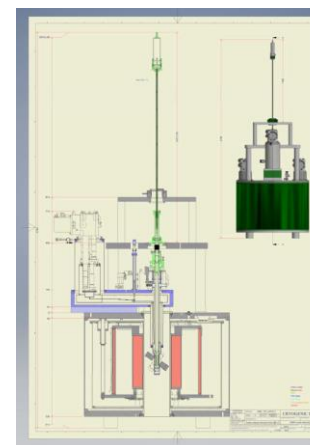
CERN-INTC-2020-011 / INTC-I-212

10/01/2020

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MULTIPAC-Setup for γ - γ Perturbed Angular Correlation Experiments in Multiferroic (and Magnetic) Materials

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Presented at ISCC in Nov 2019. Not coupled to a beamline. Requires 5m² of space "somewhere". Expected to be ready 2021...



CERN-INTC-2020-013 / INTC-I-214

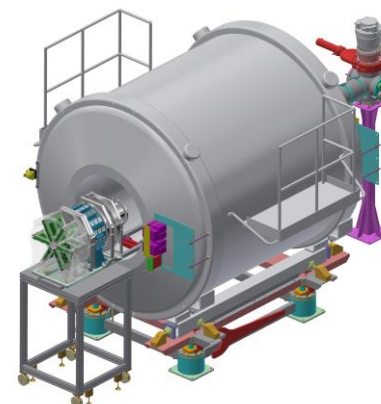
13/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

(Following HIE-ISOLDE Letters of Intent [I-119](#), [I-191](#), [I-194](#), [I-195](#) and Memorandum [INTC-M-020](#))

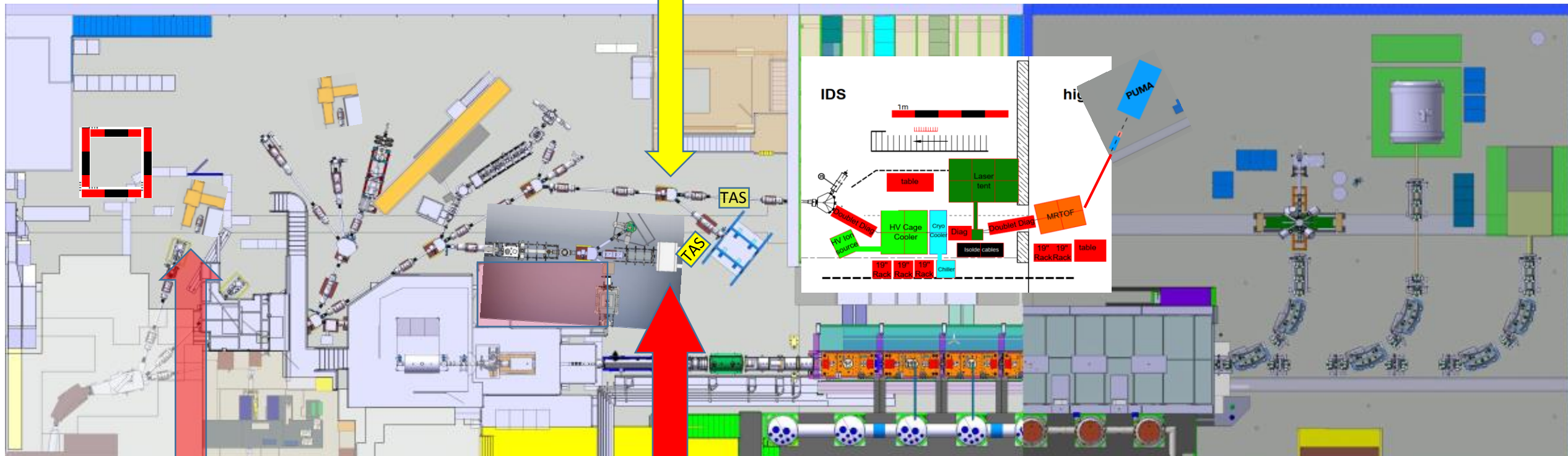
The SpecMAT active target

January 13, 2020



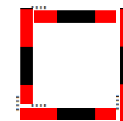
Fits inside ISS...may require quite dedicated storage space? Initial installation in Q1 2020

Difficult to see how everything can be accommodated here...



ASPIC coupled to GHM?
Or extended period at
LA2

Also, timing rack
which needs to be
put back in a fixed
place...



Currently difficult to see where MULTIPAC
can fit...close to old control
room?...dedicated space in 508?
(extension?). Special permission for 275?

RE-evaluate optics of central beam line ?

Brief update from INTC 2020

CERN-INTC-2020-001 / INTC-I-208

Not discussed at INTC Feb 2020

Postpone till June 2020

[6.01.2020]

CERN-INTC-2020-011 / INTC-I-212
10/01/2020

Not discussed at INTC Feb 2020

Postpone till June 2020

January 8th 2020

CERN-INTC-2020-003 / INTC-I-209
08/01/2020

Endorse

PUMA: antiProton Unstable Matter Annihilation

January 6, 2020

CERN-INTC-2020-012 / INTC-I-213
10/01/2020

Endorse the science case although feasibility needs to be demonstrated due to space constraints

20

CERN-INTC-2020-007 / INTC-I-210
08/01/2020

Potentially interesting science: requires clarification of science cases at June meeting.

Jan - 8th - 2020

CERN-INTC-2020-013 / INTC-I-214
13/01/2020

Letter of Intent to the ISOLDE and Neutron Time-of-Flight Committee

(Following I-190, I-191, I-194, I-195 2020)

Endorse

The SpecMAT active target

January 13, 2020

CERN-INTC-2020-008 / INTC-I-211
08/01/2020

Not discussed at INTC Feb 2020

Postpone till June 2020

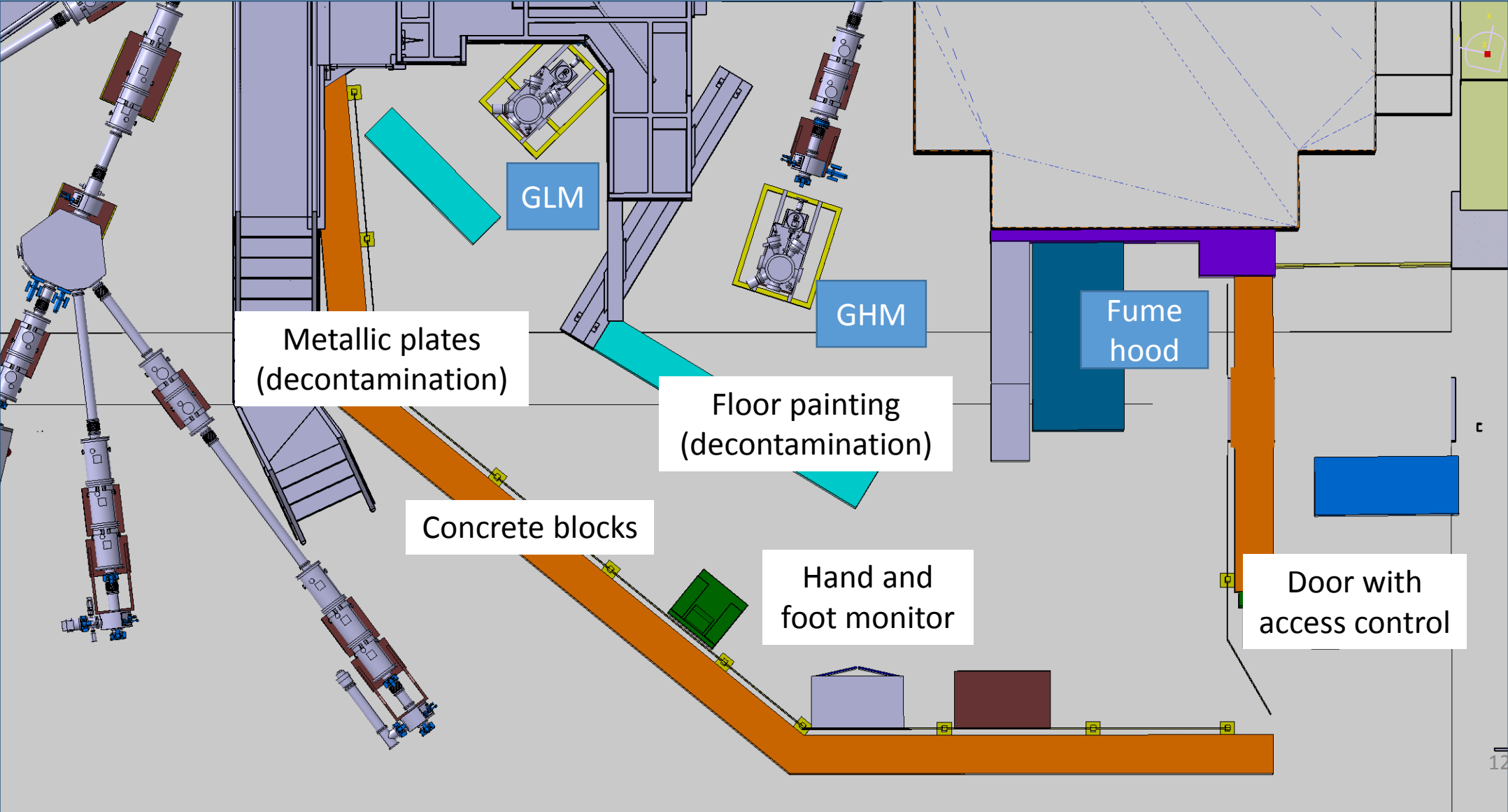
[8.01.2020]

CERN-INTC-2020-015 / INTC-I-215
13/01/2020

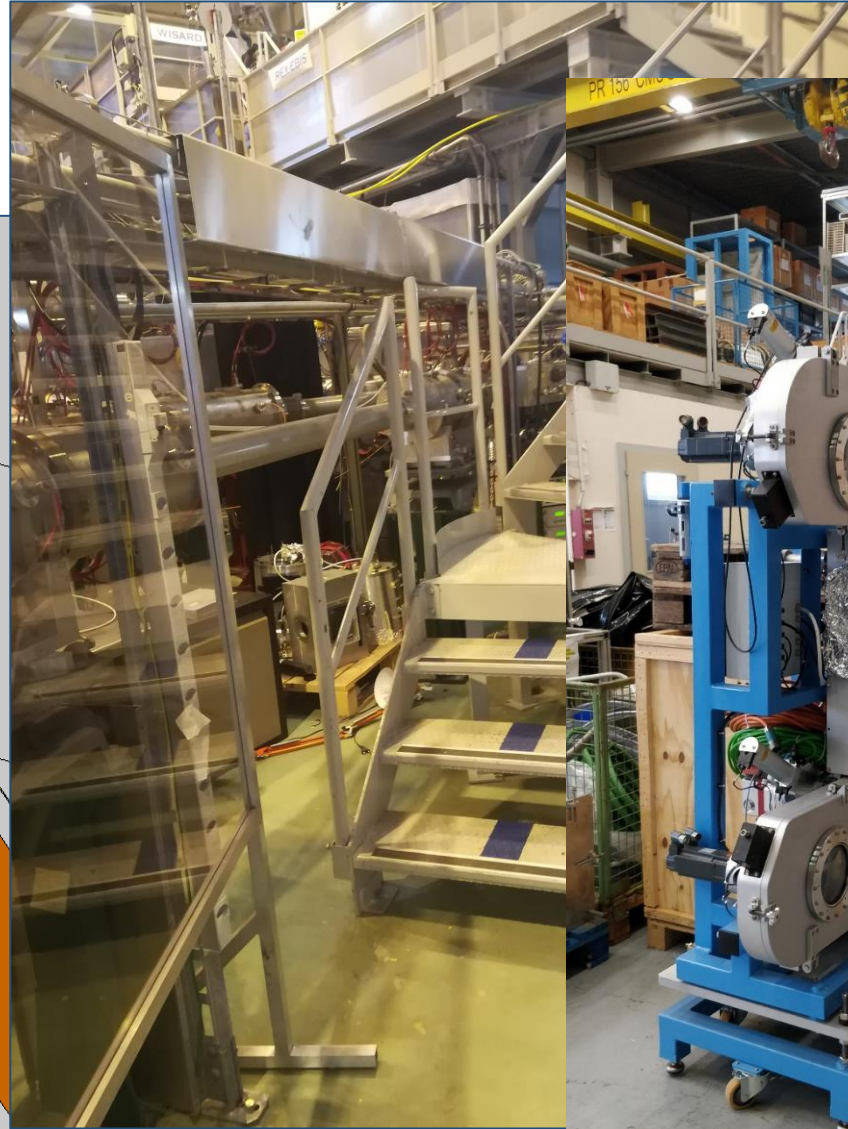
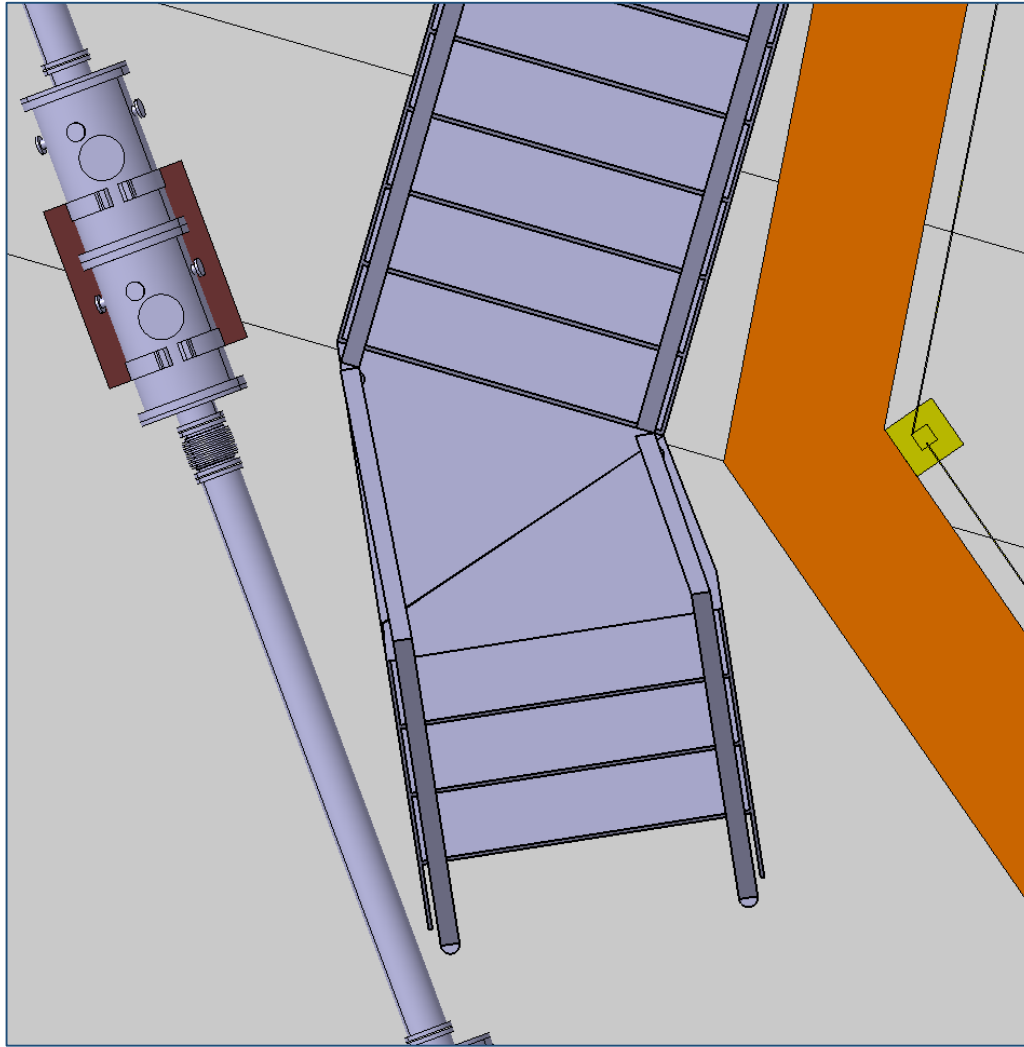
Endorse: Space has grown considerably: minimise? Repeat the need for stable beams

January 11, 2020

GLM/GHM consolidation



The new stairs



Under the stairs:
operation to
assessed.

Longer term....

With the new control room in 508, this area could be optimized...LS3?

Toilet removal

Power supplies moved up to a platform

Could allow for reconfiguration of beamlines at GLM/GHM and ASPIC/MULTIPACS?

