Agenda

https://indico.cern.ch/conferenceDisplay.py?confId=181008

I. Workpackage overview – R. Folch (25’ + 5’)
II. Functional requirements of the BIDs – R. Folch (5’ + 5’)
III. FLUKA simulations - A. Christov (15’ + 5’)
IV. Thermo-mechanical analysis – M. Delonca (25’ + 5’)
V. BREAK (15’)
V. Conceptual and detailed design – M. Fürtinger (25’ + 5’)
VI. Controls for movable BIDs – R. Folch (10’ + 5’)
VII. Manufacturing strategy – R. Folch (15’)
VIII. Discussion – All (15’)

End 12:00

A few ideas

VIII. Discussion

- *Risk management*
  - *Maintenance*
  - *Spare strategy*
- *Vacuum issues: outgassing, gaskets, etc*
- *Assembly and final test*
  - *Procedures*
  - *Test facility available?*
- *Chopper: possible changes announced?*

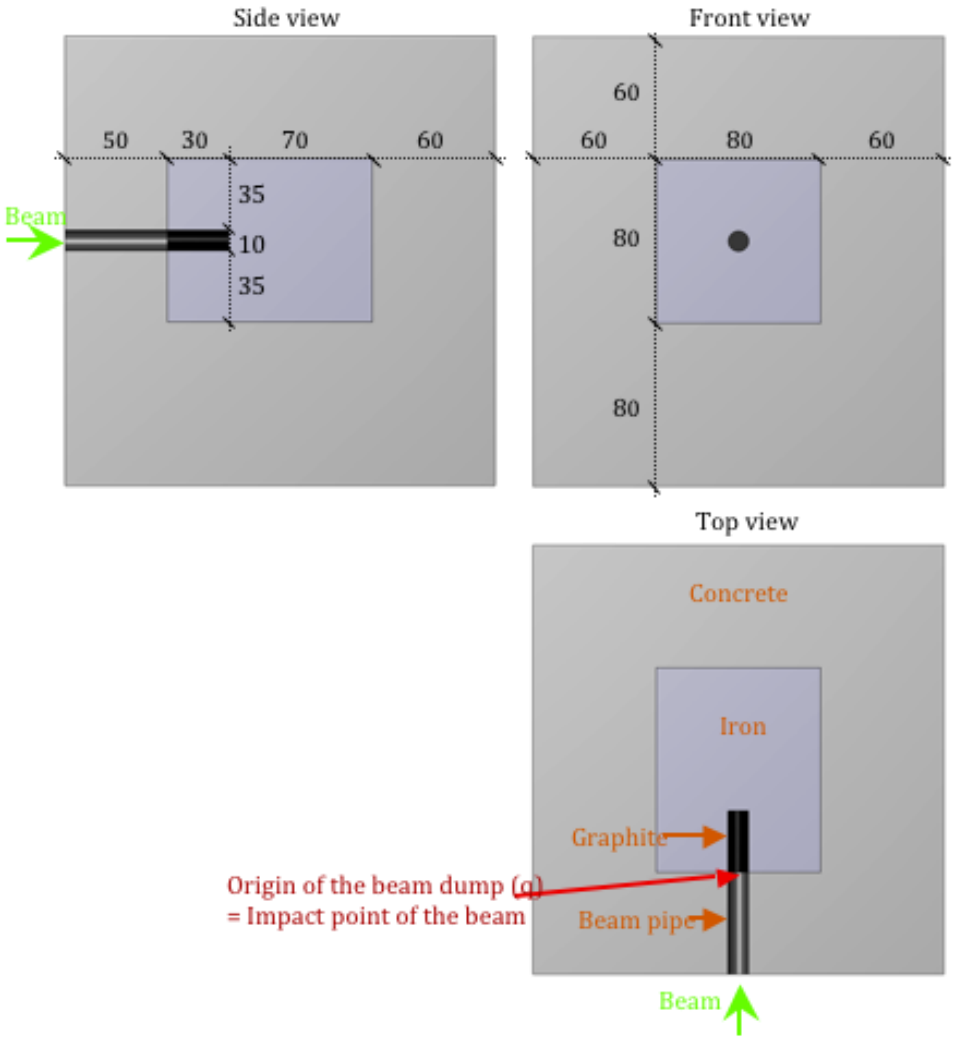
SPARE SLIDES

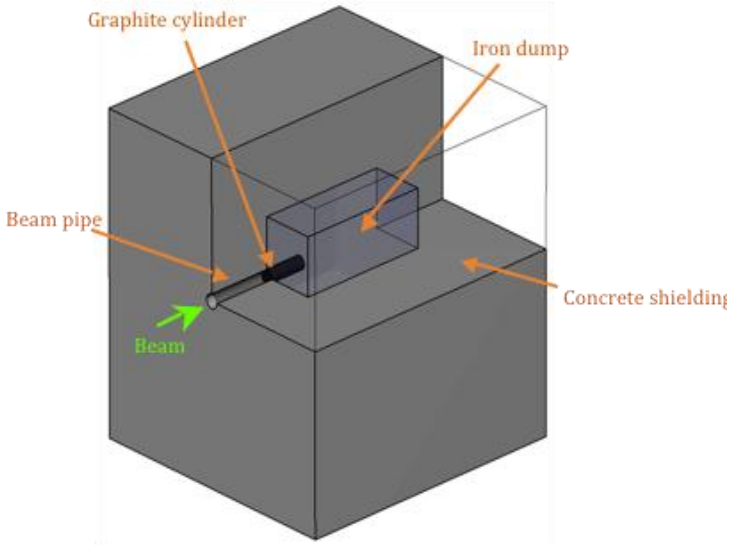
Reference documents

- MedAustron Project overview and status - M. Benedikt and A. Wrülich – The European Physical Journal Plus – 26-July 2011
- ES-100901-a-UDO rev.3.1 - Requirement on the Interception Devices
- ES-100107-a-MMA rev.1.4 - Interlock Interface Design Document
- MM-120131-a-RFO - FLUKA simulation requirements
- TN-100528-a-EFE - Preliminary proposal of the beam dump design at the end of the extraction line – E. Feldbaumer

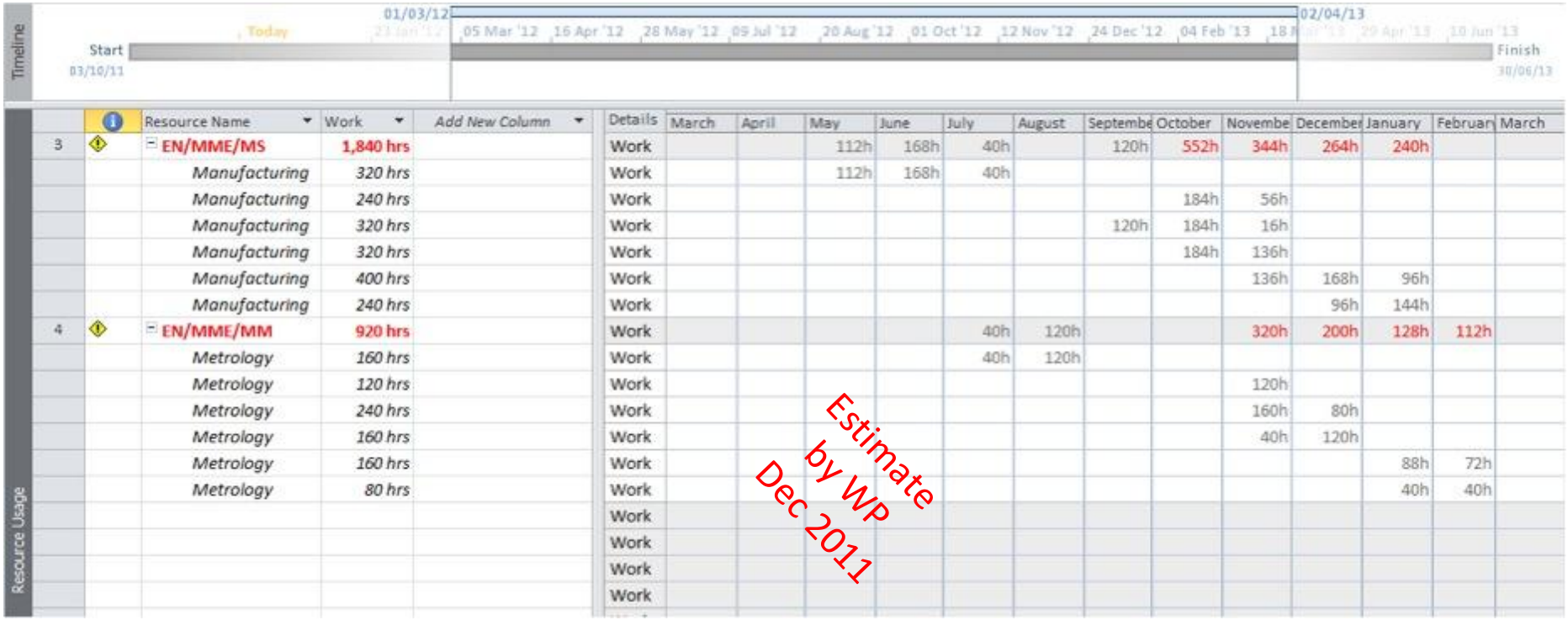
EX Beam Dump Design (proposal)

TN-100528-a-EFE



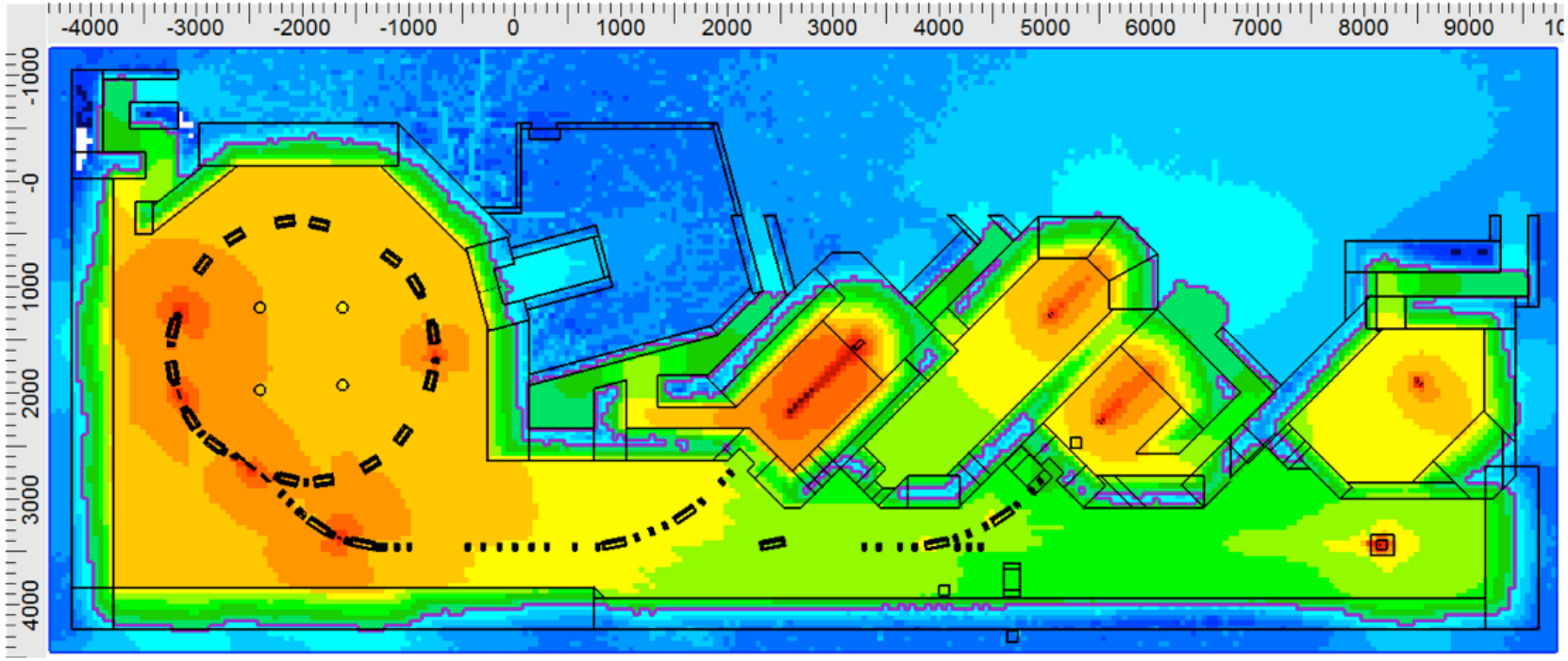


Support from EN/MME



		Resource Name	Work	Add New Column	Details	March	April	May	June	July	August	Septembe	October	Novembe	Decembe	January	Februar	March
3		EN/MME/MS	1,840 hrs		Work			112h	168h	40h		120h	552h	344h	264h	240h		
		Manufacturing	320 hrs		Work			112h	168h	40h								
		Manufacturing	240 hrs		Work								184h	56h				
		Manufacturing	320 hrs		Work							120h	184h	16h				
		Manufacturing	320 hrs		Work								184h	136h				
		Manufacturing	400 hrs		Work									136h	168h	96h		
		Manufacturing	240 hrs		Work										96h	144h		
4		EN/MME/MM	920 hrs		Work					40h	120h			320h	200h	128h	112h	
		Metrology	160 hrs		Work					40h	120h							
		Metrology	120 hrs		Work									120h				
		Metrology	240 hrs		Work									160h	80h			
		Metrology	160 hrs		Work									40h	120h			
		Metrology	160 hrs		Work											88h	72h	
		Metrology	80 hrs		Work											40h	40h	
					Work													
					Work													
					Work													
					Work													

Yearly dose (beam height)



Source:

TN-101001-a-EFE Dose Annual 2010-11-05 1 Url WBS PBS WBS WBS
1.0 RELEASED 2010-11-05
Authored by 2.1.3 - Eduard Feldbaumer
TN-101001-a-EFE_Yearly_effective_dose EIA_v2.0.doc

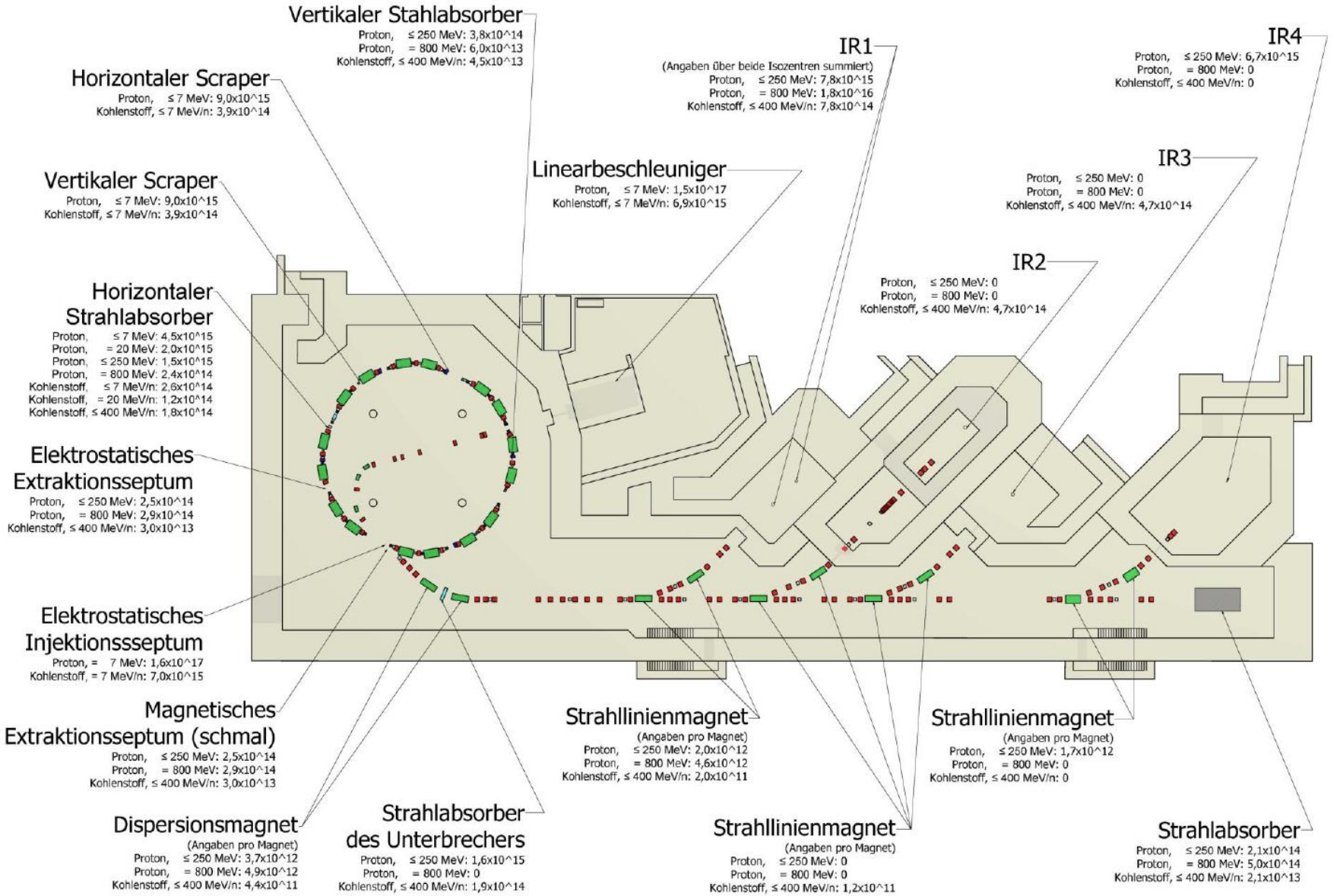
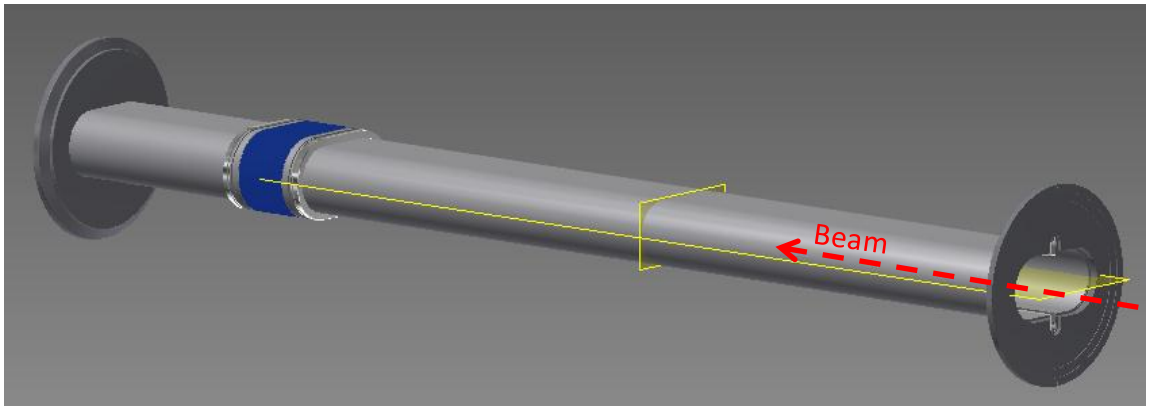
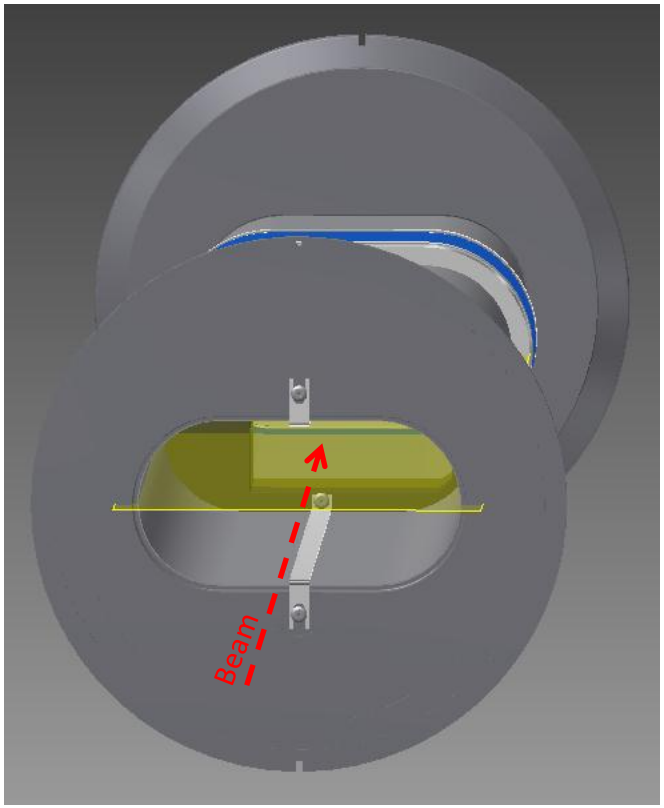


Figure 1: Expected yearly beam loss intensities at MedAustron accelerator


Beam


Beam

Review organization

WORKPACKAGE REVIEW BIDs MedAustron

				Speaker	Needed	Optional	WP Overview	Q	Requirements	Q	FLUKA	Q	Thermo mechanical	Q	BREAK	Design	Q	Controls	Q	Mfg Strategy	Q	Discussion	Total (min)	Total (h)	864-2-B14 09:00 12:30 15.03.12
				4	18	6									15								180	3.00	16
Ramon	**FOLCH**	EN/STI	Mechanical Engineer	x			25	5	5	5		5						10		15		15	85	1.42	oui
Melanie	**DELONCA**	EN/STI	Mechanical Engineer	x									25				5						30	0.50	oui
Manuel	**FUERTINGER**	MedAustron	Designer (mechnics)	x										5		25							30	0.50	oui
Asen	**CHRISTOV**	EN/STI	Fellow FLUKA	x							15								5		0		20	0.33	oui
Roberto	**LOSITO**	EN/STI	EN/STI Group Leader		x																				oui
Oliver	**ABERLE**	EN/STI	Electro-Mechanical Engineer (SL)		x																				oui
Damien	**GRENIER**	EN/STI	BID technician expert		x																				oui?
Adrian	**FABICH**	MedAustron	Project planning & Tracking		x																				oui
Michael	**BENEDIKT**	MedAustron	Project Leader		x																				oui
Philippe	**TRILHE**	MedAustron	Design		x																				oui
Vasilis	**VLACHOUIDIS**	EN/STI	FLUKA		x																				non
Wolfgang	**RUPPRECHT**	MedAustron	Integration		x																				oui
Ulrich	**DORDA**	MedAustron	Optics / Dynamics		x																				oui
Fadmar	**OSMIC**	MedAustron	Beam Diagnostics WP		x																				oui
Johanes	**GUTLEBER**	MedAustron	Controls WP		x																				oui?
Alesssandro	**MASI**	EN/STI	Electronics Engineer (SL)		x																				oui
Georg	**HULLA**	MedAustron	Vacuum WP		x																				oui
Paul	**CRUIKSHANK**	TE/VSC	Vacuum WP		x																				oui?
Eduard	**FELBAUMER**	MedAustron	Radioprotection WP		x																				oui?
Peter	**URSCHUTZ**	MedAustron	Risk Analysis		x																				oui
Robin	**GIBAUD**	EN/MME	Mechnical Engineering		x																				oui
Francesco	**BERTINELLI**	EN/MME	Mechnical Engineering		x																				non
Miguel	**JIMENEZ**	TE/VSC	Vacuum WP			x																			oui
Cesare	**MAGLIONI**	EN/STI	Electro-Mechanical Engineer			x																			oui
Marco	**CALVIANI**	EN/STI	Phisicist (FLUKA)			x																			non
Hannes	**PAVETITS**	MedAustron	Controls of safety systems			x																			oui