

Start time	Sunday 11th of Feb.	Monday 12th of February	Tuesday 13th of February	Wednesday 14th of February	Thursday 15th of Feb.	
		<b>Welcome &amp; Facility Overview I</b>	<b>Slow Extraction Hardware and Machine Protection</b>	<b>Optimisation and Machine Learning for Slow Extraction</b>		
		Chair: Dale Prokopovich	Chair: Vladimir Nagaslaev	Chair: Kevin Brown		
8:30		Dale Prokopovich, Peter Forck, et al. Welcome	Federico Roncarolo, CERN	Christian Schömers, HIT	Slow extraction serving raster scanning at medical facilities	
8:40		Dale Prokopovich, et al., MedAustron Practical hints				
8:50		Greta Guidoboni, MedAustron MedAustron Facility Overview	Maarten van Dijk, CERN	Alexander Huschauer, CERN	Integrating automation and optimisation into the CERN control system	
9:00		Marco Pullia, CNAO CNAO overview				
9:10		Christian Schömers, HIT Heidelberg Iontherapy Centre Overview	Thomas Sieber, GSI	Francesco Velotti, CERN	A detailed ML example: SPS spill quality control	
9:20		Shuang Ruan, IMP Compact application facilities development in China				
9:30		Elena Benedetto, CERN & NIMMS Next Ion Medical Machine Study (NIMMS)	Akihisa Toyoda, J-PARC	Francesco Velotti, CERN	Induced radioactivity predictions from prompt beam loss readings	
9:40		Elliott Johnson, CERN A VHE ion beam irradiation facility at CERN (CHIMERA/HEARTS)				
9:50		Matthew Fraser, CERN A new high-intensity fixed target facility at ECN3 in the CERN SPS North Area	Masahito Tomizawa, J-PARC		ML Techniques in Spill Regulation for Mu2e	
10:00		David Ondreka, GSI Slow Extraction at GSI and FAIR: An Overview				
10:10		Florian Kühnleubl, TU-Wien, MedAustron IFAST-REX Slow Extraction Survey	Markus Wolf, MedAustron		Discussion: Machine learning (conveners: Kevin Brown, Francesco Velotti)	
10:20		Hikaru Souda, Yamagata University Medical facilities in Japan				
10:30						
10:40		Coffee break (10:30 to 11:00)	Coffee break (10:30 to 11:00)	Coffee break (10:30 to 11:00)		
10:50						
		<b>Facility Overview II &amp; Xsuite Tutorial</b>	<b>Managing Extraction Efficiency I &amp; Discussion Session</b>	<b>Advanced Extraction Techniques I</b>		
		Chair: Matthew Fraser	Chair: Ryojaro Muto	Chair: Masahito Tomizawa		
11:00		Kevin Brown, BNL SEE testing at NSRL and operational modes for the proposed HEET facility	Fabien Plassard, MedAustron	Bhawin Dhital, Cornell University	Bmad Based Particle Tracking Simulation for Slow Resonant Extraction	
11:10		Vladimir Nagaslaev, FNAL First Operational Experience with Slow Extraction for the Mu2e experiment at FNAL				
11:20		Ryojaro Muto, J-PARC Current status of J-PARC Main Ring slow extraction	Bhawin Dhital, BNL	Yann Dutheil, CERN	Replacement of electrostatic septa with crystal technology	
11:30		Guodong Sheng, IMP Challenges and status of HIAF in China				
11:40		Discussion: Facility requirements	Linxiao Hou, IMP	Luigi Esposito, CERN	In-house Development of crystals at CERN (DECRYCE)	
11:50						
12:00						
12:10		Giovanni Iadarola, CERN	David Ondreka, GSI	Marco Garattini, INFN Frascati	Crystal slow extraction of positrons from the Frascati DAΦNE collider	
12:20		Xsuite Tutorial (60 min)	Cristopher Cortes, DESY	Elisabeth Renner, TU-Wien	Simulation study of mixed He-2+/C-6+ beam slow extraction for online range-verification	
12:30						
12:40						
12:50		Group photo	Discussion: Spill quality requirements and spill monitoring and absolute measurements of DC beams (conveners: Ryojaro Muto, Federico Roncarolo)	Rebecca Taylor, CERN & NIMMS	FLASH extraction from NIMMS helium synchrotron	
13:00						
		Lunch break (13:00 to 14:00)	Lunch break (13:00 to 14:00)	Lunch break (13:00 to 14:00)		
		<b>Spill Ripples &amp; Beam Quality I</b>	<b>Managing Extraction Efficiency II</b>	<b>Advanced Extraction Techniques II</b>		
		Chair: Peter Forck	Chair: David Ondreka	Chair: Mauro Pivi		
14:00		Florian Kühnleubl, TU-Wien, MedAustron Beam ripple studies at MedAustron	Ryojaro Muto, J-PARC	Frank Stulle, Bergoz	Power supplier ripple measurements with a DC/AC transformer combination	
14:10						
14:20		Stefan Sorge, GSI Spill structure simulations for GSI and FAIR	Vladimir Nagaslaev, FNAL	Florian Kühnleubl, TU-Wien, MedAustron	Slow extraction developments at MedAustron	
14:30						
14:40		Rahul Singh, GSI Knock-out extraction feedback dynamics	Francesco Velotti, CERN	Fabien Plassard, MedAustron	Simulation of multi-energy extraction with RFKO	
14:50						
15:00		Cristopher Cortes, GSI, & HIT Interpretation of BTF-based tune measurements close to a 3rd-order resonance at HIT	Olha Kazinova, TU-Darmstadt	Philipp Niedermayer, GSI	Tailored excitation signals for RFKO	
15:10						
15:20		Elke Feldmeier, HIT Upgrade of HIT's slow extraction system and the first experience in medical operation	Björn Galnander, GSI	Pablo Arrutia, CERN	RF techniques for bunched/pulsed slow extractions from synchrotrons	
15:30						
15:40		Aakaash Narayanan, FNAL Transit Time Simulation Studies			Discussion: Advanced extraction techniques (conveners: Mauro Pivi, Rahul Singh)	
15:50			Discussion: Extraction efficiency and machine protection (conveners: David Ondreka, Jiancheng Yang)			
16:00						
16:10		Coffee break (16:00 to 16:30)	Coffee break (16:00 to 16:30)	Coffee break (16:00 to 16:30)		
16:20						
		<b>Spill Ripples &amp; Beam Quality II</b>	<b>Septa Development</b>	<b>Discussion &amp; Conclusion</b>		
		Chair: Marco Pullia	Chair: Christian Schömers	Chair: Dale Prokopovich (Peter Forck on second level)		
16:30		Ryojaro Muto, J-PARC Spill structure with newly upgraded main magnet power supplies in J-PARC Main Ring	Bruno Balhan, CERN		Discussion: Machine learning tools and virtual diagnostics (conveners: Kevin Brown, Francesco Velotti)	
16:40						
16:50		Kevin Brown, BNL Spill ripple compensation with direct field ripple measurements	Friedrich Lackner, CERN			
17:00						
17:10		Pablo Arrutia, CERN RF techniques for spill ripple improvement	Katherine Laureto, FNAL		Discussion: Collaborative opportunities and conclusions (conveners: Brennan Goddard, Vladimir Nagaslaev, Masahito Tomizawa)	
17:20						
17:30	Registration & Welcome reception (18:30 to 20:00, Plaza Inn hotel lobby)	Discussion: Beam quality requirements (conveners: Peter Forck, Marco Pullia)	Jan Borburgh, CERN	CNAO septum ESE2 development		
17:40						
17:50					Dale Prokopovich	Closing remarks
18:30						
18:40						
19:00						
20:00						
22:00				Conference Dinner (19:30 to 22:00, bus transport from hotel)		