

Thursday 9th November**08:00 – 08:45 Welcome coffee and registration****08:45 – 12:45 Session 1****Workshop motivation and Slow Extraction at existing and new facilities (B.Goddard)**

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| 1. Welcome address and workshop objectives 20 + 5' | B. Goddard (CERN) |
| 2. Requirement for slow extraction by future fixed target and beam dump experiments 20 + 5' | R. Jacobsson (CERN) |
| 3. JPARC-MR SE Overview 20 + 5' | M. Tomizawa (J-PARC) |
| 4. FNAL SE Overview and plans for Mu2e 20 + 5' | V. Nagaslaev (FNAL) |

Coffee break 30'

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| 5. CERN-SPS SE Overview 20 + 5' | V. Kain (CERN) |
| 6. GSI and FAIR SE Overview 20 + 5' | D. Ondreka (GSI) |
| 7. IHEP SE Overview 20 + 5' | S. Ivanov (NRC KI – IHEP) |

For overview talks:

- *Emphasis on operational problems and issues, with details for technical talks (if possible);*
- *Quantify attainable loss levels and spill quality;*
- *List any specific loss reduction and spill improvement techniques applied;*
- *Mention areas of active theoretical/experimental study;*
- *What stability/reproducibility levels are attained?*
- *Are there issues with activation levels and handling?*
- *What is the key instrumentation for intensity calibration, efficiency, losses, spill quality.*

12:45 – 14:00 Lunch**14:00 – 18:00 Session 2****Existing and new loss reduction methods (K.Brown & M.Fraser)**

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| 1. Simulating slow-extraction 15 + 5' | F. Meot (BNL) |
| 2. Dynamic bump and Hardt condition 15 + 5' | L.S. Stoel (CERN) |
| 3. Separatrix folding with multipoles 15 + 5' | K. Brown (BNL) |
| 4. Massless septum for loss reduction 15 + 5' | K. Brunner (Wigner) |
| 5. Passive diffuser studies and design 15 + 5' | B. Goddard (CERN) |
- Coffee break 30'**
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| 6. Crystals for loss reduction at IHEP & CERN 15 + 5'' | W. Scandale (CERN) |
| 7. Crystal shadowing studies for septa 15 + 5' | F.M. Velotti (CERN) |
| 8. Loss collimation 15 + 5' | R. Muto (J-PARC) |
| 9. Precise extraction efficiency measurement 15 + 5'' | M. Fraser (CERN) |
| 10. Translation vs. diffusion -driven 3rd integer extraction 15 + 5' | S. Ivanov (NRC KI – IHEP) |

19:30 - 22:00 Dinner (Smash Club)

Friday 10th November

08:00 – 08:45 Coffee and free discussion

08:45 – 12:45 Session 3

Beam quality and improving spill structure (S. Ivanov & V. Kain)

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| 1. Experimental requirements on spill quality 15 + 5' | J. Bernhard (CERN) |
| 2. Planned measures for improving SIS18 spill quality 15 + 5' | P. Schmid (GSI) |
| 3. Stochastic noise extraction 15 + 5' | B. Loretnz (FZJ) |
| 4. Spill control at the Marburg Ion-Beam Therapy Centre 15 + 5' | C. Krantz (MIT) |
| 5. Feedback and feedforward spill control 15 + 5' | M. Tomizawa (J-PARC) |
| 6. Machine reproducibility/stability and spill quality 15 + 5' | F.M. Velotti (CERN) |

Coffee break 30'

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| 7. Measurements of the spill structure on a wide time range at GSI 15 + 5' | P. Forck (GSI) |
| 8. Simulation of micro- and milli-second spill structure, 15 + 5' | S. Sorge (GSI) |
| 9. Mains harmonic noise: active filtering and compensation 15 + 5' | J.P. Burnet (CERN) |
| 10. Spill quality for NASA facility at AGS 15 + 5' | K. Brown (BNL) |
| 11. Spill control for CNAO slow extraction 15 + 5' | L. Falbo (CNAO) |

12:45 – 14:00 Lunch

14:00 – 17:00 Session 4

Hardware: reducing loss, activation and dose (M. Tomizawa)

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| 1. Activation and radiation damage at slow extraction 15+ 5' | E. Mustafin (GSI) |
| 2. Activation monitoring and prediction models 15 + 5' | M. Fraser (CERN) |
| 3. Remote handling experience and prospects 15 + 5' | K. Kershaw (CERN) |
| 4. Low-Z septa (C wires, Ti cathodes, tanks) 15 + 5' | J. Borburgh (CERN) |
| 5. Alignment of septa and optimised operational set-up 15 + 5' | R. Muto (J-PARC) |
- Coffee break 30'**
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| 6. Instrumentation of DC beams: intensity and beam profile 15 + 5' | P. Forck (GSI) |
| 7. Tomography for bunch distribution reconstruction 15 + 5' | A. Wastl (MedAustron) |

17:00 – 18:00 Session 5:

Session summaries and discussion (G. Franchetti, B. Goddard, V. Nagaslaev)

Saturday 11th November

09:00 – 09:30 Coffee and free discussion

09:30 – 10:15 Session 6

Discussion: Follow-up from 1st Workshop, proposals for collaboration (G. Franchetti) 45'

10:15 – 11:00 Session 7

Discussion: Outlook and priorities for 3rd Workshop (V. Nagaslaev) 45'

11:30 – 13:00 Visit: septum laboratory and CERN Control Centre