### 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)**

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’**

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)**

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’**

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)

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’

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)

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’

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