

Welcome

G. Franchetti - GSI

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The Slow Extraction Workshop

Chair: O. Boine-Frankenheim, G. Franchetti

Secretary: I. De Caluwe

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Kiyomi	Seiya	FNAL
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Peter	Spiller	GSI
Frank	Zimmermann	CERN

1-3 June 2016, Darmstadt, Germany

Beam Dynamics *meets* Magnets

Dec. 2013, Darmstadt



by PSI, Dec. 2014

Advanced Optics Control
Workshop
2015, CERN

Mechanisms

Collaboration meeting
2014, CERN

Space charge,
Oxford 2015

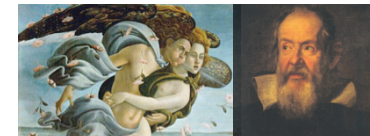
Beam Dynamics

Surfaces,
damages,
vacuum

2017

Topical

Beam dynamics *meets* Diagnostics

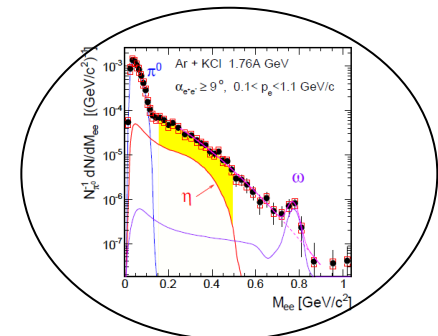
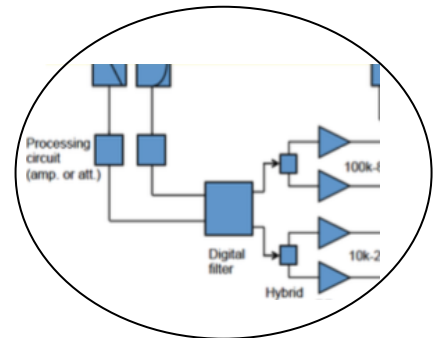
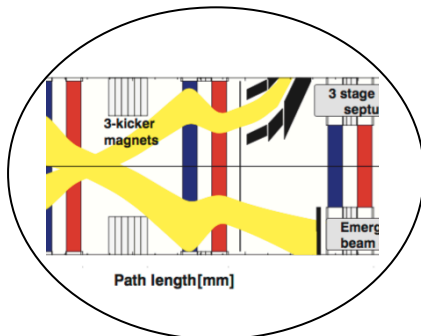
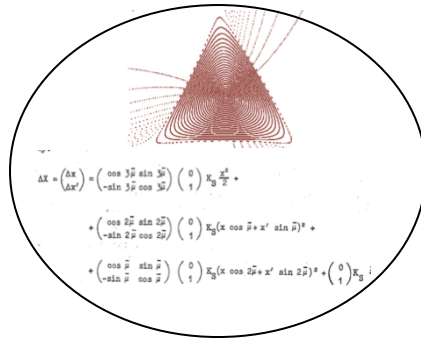


November 2015



1-3 July 2016

The Slow Extraction



The Slow Extraction Workshop Program

1st – 3rd June, 2016

Wednesday 1st June

Thursday 2nd June

Friday 3rd June

8:45 - 9:00

Welcome address

Juergen Gerl (GSI/FAIR): The NUSTAR physics case requirements
Jerzy Pietraszko (GSI): The HADES/CBM physics case requirements

P. Spiller (GSI): Motivation from the GSI and FAIR accelerator projects (20 min.)

Thomas Haberer (HIT): The medical case: need for good beams (from medical facilities)
Marco Pullia (CNAO): Betatron Core Driven Slow Extraction at CNAO and MedAustron
Christian Schömers (HIT): The intensity feedback system at Heidelberg Ion-Beam Therapy Center

Koji Noda (NIRS): Advanced RF-KO slow-extraction method for the reduction of spill ripple

Hans Stockhorst (FZJ): The procedure of beam extraction with longitudinal feeding at COSY-Juelich
Dieter Prasuhn (FZJ): Observations with slow extraction at COSY and cures

10:30 - 11:00

Coffee Break

Coffee Break

Coffee Break

David Ondreka (GSI): Slow extraction of heavy ions from SIS18 – possible cures for smoothing the micro structure
Niels Pyka (GSI): Technical issues at slow extraction of intense heavy ion beams (Septa damage, and impact to slow extraction)
Stefan Sorge (GSI): Slow extraction issues of SIS100

Adriano Garonna (MeAustron): "Extraction Commissioning for Proton Clinical Beams at MeAustron"

Wolfgang Hillert (U. Bonn): Slow extraction in electron machines

Walter Scandale (CERN): "Crystal extraction"

Discussion and Summary

12:30 - 14:00

Lunch

Lunch

Afternoon program (at choice)

- * guided visit GSI
- * guided visit HIT

Peter Forck (GSI): 'Measurement technique for micro and millisecond spill structures'

Massimo Giovannozzi (CERN): Resonant extraction: review of principles and experimental results
Armando Bazzani (U. Bologna): Non-linear dynamics principles underlying slow and resonant extractions

Vladimir Nagashev (FNAL): Requirements, Design and Challenge of slow extraction for the Mu2E experiment at Fermilab
Kevin Brown (BNL): Slow extraction of high intensity beam from the AGS

Linda Stael (CERN): TeV slow extraction challenges

15:30 – 16:00

Coffee Break

Coffee Break

Masahito Tomizawa (KEK): Slow extraction at J-PARC
Sergey Ivanov (IHEP): Slow Extractions from the U-70

Mathew Fraser (CERN): SPS present and future challenges
Jan Borburgh (CERN): Septa design and development at CERN

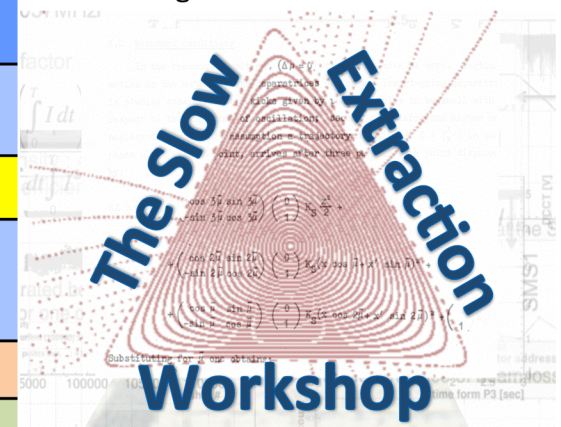
17:00-18:00

Discussion

Discussion

19:30-22:00

Workshop dinner



Workshop Dinner at the “Calla” restaurant: located in the Darmstadtium

Thursday
19:30 – 22:00



1/06/2016

G. Franchetti



Thanks to

Isabel De Caluwe (workshop secretary)
Oliver Boine-Frankenheim (contracts Darmstadtium)
Lucilla Ferri, Irene Reinhardt GSI EU-Office

All the International Advisory Committee
(program and advises!)