

# **Low Emittance Rings workshop 2016**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Commissioning Progress at the MAXIV 3 GeV Storage Ring

*Wednesday, 26 October 2016 09:00 (25 minutes)*

**Presenter:** Dr LEEMANN, Simon (MAX IV Laboratory / Lund University)

**Session Classification:** LERD session (Part I)

Contribution ID: 2

Type: **not specified**

## Progress on the SIRIUS project

*Wednesday, 26 October 2016 09:25 (25 minutes)*

**Presenter:** Mr DE SÃ, Fernando Enrique (SIRIUS)

**Session Classification:** LERD session (Part I)

Contribution ID: 3

Type: **not specified**

## SOLEIL upgrade ideas

*Wednesday, 26 October 2016 09:50 (25 minutes)*

**Presenter:** Dr NADJI, Amor (Synchrotron SOLEIL)

**Session Classification:** LERD session (Part I)

Contribution ID: 4

Type: **not specified**

# **Lattice and Single-Particle Beam Dynamics for the APS Upgrade**

*Wednesday, 26 October 2016 10:15 (25 minutes)*

**Presenter:** Dr LINDBERG, Ryan (Argonne National Lab)

**Session Classification:** LERD session (Part I)

Contribution ID: 5

Type: **not specified**

## Low Emittance Upgrade of CESR for CHES

*Wednesday, 26 October 2016 10:40 (25 minutes)*

**Presenter:** Dr CRITTENDEN, Jim (Cornell University)

**Session Classification:** LERD session (Part I)

Contribution ID: 9

Type: **not specified**

## Overview of ALS Upgrade

**Presenter:** Dr ROBIN, David

Contribution ID: **10**

Type: **not specified**

# **Lattice Design and Beam Dynamics studies for HEPS**

**Presenter:** Dr JIAO, Yi



Contribution ID: **13**

Type: **not specified**

## Overview of ALS Upgrade

*Wednesday, 26 October 2016 11:25 (25 minutes)*

**Presenter:** Dr ROBIN, David (Lawrence Berkeley National Laboratory)

**Session Classification:** LERD Session (Part II)

Contribution ID: 14

Type: **not specified**

## **Lattice design and beam dynamics studies for HEPS**

*Wednesday, 26 October 2016 11:50 (25 minutes)*

**Presenter:** Dr JIAO, YI (IHEP)

**Session Classification:** LERD Session (Part II)

Contribution ID: 15

Type: **not specified**

## **ELETTRA - II Upgrade**

*Wednesday, 26 October 2016 12:15 (25 minutes)*

**Presenter:** Dr KARANTZOULIS, Emanuel (Elettra - Sincrotrone Trieste)

**Session Classification:** LERD Session (Part II)

Contribution ID: **16**

Type: **not specified**

## **Progress of SLS-II Project**

*Wednesday, 26 October 2016 12:40 (25 minutes)*

**Presenter:** Dr AIBA, Masamitsu (PSI)

**Session Classification:** LERD Session (Part II)

Contribution ID: 17

Type: **not specified**

## Progress with Diamond II design

*Wednesday, 26 October 2016 14:15 (25 minutes)*

**Presenter:** Prof. BARTOLINI, Riccardo (JAI and DLS)

**Session Classification:** LERD session (Part III)

Contribution ID: **18**

Type: **not specified**

## **Status of NLS- II**

*Wednesday, 26 October 2016 14:40 (25 minutes)*

**Presenter:** Dr WANG, Guimei (BNL)

**Session Classification:** LERD session (Part III)

Contribution ID: **19**

Type: **not specified**

## Progress on BESSY VSR

*Wednesday, 26 October 2016 15:05 (25 minutes)*

**Presenter:** Dr RIES, Markus (Helmholtz-Zentrum Berlin)

**Session Classification:** LERD session (Part III)

Contribution ID: 20

Type: **not specified**

## **SPring-8 upgrade and nonlinear optimizations**

*Wednesday, 26 October 2016 15:30 (25 minutes)*

**Presenter:** Dr WATANABE, Takahiro (RIKEN SPring - 8 center/ JASRI)

**Session Classification:** LERD session (Part III)



Contribution ID: 21

Type: **not specified**

## **Online optimisation of accelerators with modern algorithms such as RCDS**

*Wednesday, 26 October 2016 16:15 (25 minutes)*

**Presenter:** Dr HUANG , Xiaobiao (SLAC National Accelerator Laboratory)

**Session Classification:** LERD session (Part IV)

Contribution ID: 22

Type: **not specified**

## **MOGA optimizer developement at SLS**

*Wednesday, 26 October 2016 16:40 (25 minutes)*

**Presenter:** Dr EHRLICHMAN, Michael (Paul Scherrer Institut)

**Session Classification:** LERD session (Part IV)

Contribution ID: 23

Type: **not specified**

## Comparison of optics measurement methods in ESRF

*Wednesday, 26 October 2016 17:05 (25 minutes)*

**Presenter:** Mr MALINA, Lukas (University of Oslo (NO))

**Session Classification:** LERD session (Part IV)

Contribution ID: 24

Type: **not specified**

## Injection Scheme for SPring-8 upgrade

*Wednesday, 26 October 2016 17:30 (25 minutes)*

**Presenter:** Dr TAKANO , Shiro (RIKEN SPring - 8 Center /JASRI)

**Session Classification:** LERD session (Part IV)

Contribution ID: 25

Type: **not specified**

## Top-up injection schemes for HEPS

*Wednesday, 26 October 2016 17:55 (25 minutes)*

**Presenter:** Dr DUAN, zhe (institute of high energy physics, Chinese Academy of Sciences)

**Session Classification:** LERD session (Part IV)

Contribution ID: 26

Type: **not specified**

## Beam Physics Challenges of ALS-U

*Thursday, 27 October 2016 08:30 (25 minutes)*

**Presenter:** VENTURINI, Marco (LBNL)

**Session Classification:** LERD Session (Part V)

Contribution ID: 27

Type: **not specified**

# **Analysis of Nonlinear Dynamics by Square Matrix Method**

*Thursday, 27 October 2016 08:55 (20 minutes)*

**Presenter:** Dr YU, LI HUA (Brookhaven National Laborator)

**Session Classification:** LERD Session (Part V)

Contribution ID: 28

Type: **not specified**

## **Electron beam losses and collimation at ESRF-RBS**

*Thursday, 27 October 2016 09:15 (25 minutes)*

**Presenter:** Mrs VERSTEEGEN, REINE (ESRF)

**Session Classification:** LERD Session (Part V)



Contribution ID: 29

Type: **not specified**

## Ultra-low emittance ring with energy variation

*Thursday, 27 October 2016 09:40 (25 minutes)*

**Presenter:** Dr AIBA, MASAMITSU (PSI)

**Session Classification:** LERD Session (Part V)

Contribution ID: 30

Type: **not specified**

## **Update on emittance coupling studies at the Australian Synchrotron**

*Thursday, 27 October 2016 10:05 (25 minutes)*

**Presenter:** DOWD, Rohan (Synchrotron Light Source Australia)

**Session Classification:** LERD Session (Part V)

Contribution ID: 31

Type: **not specified**

## **Novel short bunch sc gene using crab cavities at SPEAR3**

*Thursday, 27 October 2016 10:30 (25 minutes)*

**Presenter:** Dr HUANG, XIAOBIAO (SLAC National Accelerator Laboratory)

**Session Classification:** LERD Session (Part V)

Contribution ID: **32**

Type: **not specified**

## Celebrative Talk

*Thursday, 27 October 2016 11:15 (30 minutes)*

**Presenter:** PEREZ, Francis (ALBA Synchrotron - CELLS)

**Session Classification:** Special Event honouring Prof Dieter Einfeld

Contribution ID: 33

Type: **not specified**

## Celebrative Talk

*Thursday, 27 October 2016 11:45 (30 minutes)*

**Presenter:** Prof. EINFELD, DIETER (ESRF, ASD-Division)

**Session Classification:** Special Event honouring Prof Dieter Einfeld

Contribution ID: **34**

Type: **not specified**

## Commendation

*Thursday, 27 October 2016 12:15 (10 minutes)*

**Session Classification:** Special Event honouring Prof Dieter Einfeld

Contribution ID: 35

Type: **not specified**

## Workshop Photo

*Thursday, 27 October 2016 12:25 (10 minutes)*

**Session Classification:** Special Event honouring Prof Dieter Einfeld

Contribution ID: 36

Type: **not specified**

## Challenges of the new e+e collider studies

*Thursday, 27 October 2016 13:45 (25 minutes)*

**Presenter:** PAPAPHILIPPOU, Yannis (CERN)

**Session Classification:** LERD session (Part VI)



Contribution ID: 37

Type: **not specified**

## Progress on ESRF-EBS

*Thursday, 27 October 2016 14:10 (25 minutes)*

**Presenter:** Prof. RAIMONDI, PANTALEO (ESRF - The European Synchrotron)

**Session Classification:** LERD session (Part VI)

Contribution ID: **38**

Type: **not specified**

## **Results of low emittance tuning for superKEKB**

*Thursday, 27 October 2016 14:35 (25 minutes)*

**Presenter:** Dr IIDA, Naoko (KEK)

**Session Classification:** LERD session (Part VI)

Contribution ID: 39

Type: **not specified**

## Review of TWIICE 2 workshop

*Thursday, 27 October 2016 15:05 (30 minutes)*

**Presenter:** Prof. BARTOLINI, Riccardo (JAI and DLS)

**Session Classification:** IICE session (part I)

Contribution ID: 40

Type: **not specified**

## **Local transverse impedance measurements at ALBA from turn-by-turn acquisition**

*Thursday, 27 October 2016 15:35 (25 minutes)*

**Presenter:** Mr CARLA', Michele (cells-alba)

**Session Classification:** IICE session (part I)

Contribution ID: 41

Type: **not specified**

## Review of high frequency impedance

*Thursday, 27 October 2016 16:20 (30 minutes)*

**Presenter:** Mr BANE, Karl (SLAC National Accelerator Laboratory)

**Session Classification:** IICE session (Part II)

Contribution ID: 42

Type: **not specified**

## **Instability analysis of DIAMOND with and without feedback ad benchmark with simulations**

*Thursday, 27 October 2016 16:50 (25 minutes)*

**Presenter:** KOUKOVINI PLATIA, Eirini (Diamond)

**Session Classification:** IICE session (Part II)

Contribution ID: 43

Type: **not specified**

## **Studies of collective effects in Sirius**

*Thursday, 27 October 2016 17:15 (25 minutes)*

**Presenter:** DE SÃ, Fernando Enrique (SIRIUS)

**Session Classification:** IICE session (Part II)

Contribution ID: 44

Type: **not specified**

## Single bunch instability in SLS -II

*Thursday, 27 October 2016 17:40 (25 minutes)*

**Presenter:** XU, Haisheng (PSI)

**Session Classification:** IICE session (Part II)



Contribution ID: 45

Type: **not specified**

## **Beam instability measurment and analysis in MAX IV**

*Thursday, 27 October 2016 18:05 (25 minutes)*

**Presenter:** SKRIPKA, Galina (CERN)

**Session Classification:** IICE session (Part II)

Contribution ID: 46

Type: **not specified**

## Overview of beam instability driven by CSR in storage rings

*Friday, 28 October 2016 09:00 (30 minutes)*

**Presenter:** STUPAKOV, Gennady (SLAC National Accelerator Laboratory (US))

**Session Classification:** IICE session (Part II)

Contribution ID: 47

Type: **not specified**

## **FASTION in PyHEASTAIL**

*Friday, 28 October 2016 09:30 (25 minutes)*

**Presenter:** METHER, Lotta (CERN)

**Session Classification:** IICE session (Part II)

Contribution ID: 48

Type: **not specified**

## **Theoretical predictions of single bunch instabilities at high chromaticity with a Fokker-Pkanck model**

*Friday, 28 October 2016 09:55 (25 minutes)*

**Presenter:** Dr LINBERG, Ryan (Argonne National Lab)

**Session Classification:** IICE session (Part II)

Contribution ID: 49

Type: **not specified**

## Magnet development for ESRF-EBS

*Friday, 28 October 2016 11:15 (25 minutes)*

**Presenter:** Dr CHAVANNE, Joël (ESRF)

**Session Classification:** LERT session (Part II)

Contribution ID: 50

Type: **not specified**

## **SRF system deveopment for BESSY VSR**

*Friday, 28 October 2016 11:40 (25 minutes)*

**Presenter:** Dr VÉLEZ, Adolfo (HELMHOLTZ ZENTRUM BERLIN (G-ISRF))

**Session Classification:** LERT session (Part II)

Contribution ID: 51

Type: **not specified**

## **X-ray beam size monitor with a dedicated source wiggler**

*Friday, 28 October 2016 12:05 (25 minutes)*

**Presenter:** CRITTENDEN, Jim (Cornell University)

**Session Classification:** LERT session (Part II)

Contribution ID: 52

Type: **not specified**

## Design of a fast pulsed kicker for HEPS

*Friday, 28 October 2016 14:05 (25 minutes)*

**Presenter:** Dr SHI, Hua (Institute of High Energy Physics, Chinese Academy of Sciences)

**Session Classification:** LERT session (Part III)



Contribution ID: 53

Type: **not specified**

## **Injection/extraction kikkers and harmonic cavities for ALS-U**

*Friday, 28 October 2016 12:30 (25 minutes)*

**Presenter:** Dr DE SANTIS , Stefano (LBNL)

**Session Classification:** LERT session (Part II)

Contribution ID: 54

Type: **not specified**

## Commissioning of MAXIV 3Gev ring subsystems

*Friday, 28 October 2016 14:30 (25 minutes)*

**Presenter:** LEEMANN, Simon (MAX IV Laboratory / Lund University)

**Session Classification:** LERT session (Part III)

Contribution ID: 57

Type: **not specified**

## Summary LERD

*Friday, 28 October 2016 15:10 (15 minutes)*

**Presenter:** BARTOLINI, riccardo (Diamond Light Source and John Adams Institute)

**Session Classification:** Summary session

Contribution ID: 58

Type: **not specified**

## Summary II CE

*Friday, 28 October 2016 15:25 (15 minutes)*

**Session Classification:** Summary session

Contribution ID: 59

Type: **not specified**

## Summary LERT

*Friday, 28 October 2016 15:40 (15 minutes)*

**Presenter:** JANKOWIAK, Andreas (Helmholtz-Zentrum Berlin)

**Session Classification:** Summary session

Contribution ID: **60**

Type: **not specified**

## Plenary discussions

*Friday, 28 October 2016 15:55 (35 minutes)*

**Session Classification:** Summary session

Contribution ID: **61**

Type: **not specified**

## **LowRing prize announcement+ From loweRing to AIRIES discussions**

*Friday, 28 October 2016 16:30 (55 minutes)*

**Session Classification:** Summary session

Contribution ID: **62**

Type: **not specified**

## Closing remarks

*Friday, 28 October 2016 17:25 (5 minutes)*

**Session Classification:** Summary session



Contribution ID: 63

Type: **not specified**

## Creating Round Beams by Linear Coupling

**Presenter:** KUSKE, Peter (HZB, Humboldt-innovation GmbH)

Contribution ID: **64**

Type: **not specified**

## Status of Lit-J Project

*Wednesday, 26 October 2016 18:20 (10 minutes)*

**Presenter:** Dr HIROYUKI, Hama (Research Center for Electron Photon Science)

**Session Classification:** LERD session (Part IV)

Contribution ID: 65

Type: **not specified**

## Review of ALERT2016

*Friday, 28 October 2016 10:25 (25 minutes)*

**Presenter:** KARANTZOULIS, Emanuel (Elettra - Sincrotrone Trieste)

**Session Classification:** LERT session (Part I)

Contribution ID: 66

Type: **not specified**

## Creating Round Beams by Linear Coupling

*Friday, 28 October 2016 14:55 (10 minutes)*

**Presenter:** KUSKE, Peter (HZB, Humboldt-innovation GmbH)

**Session Classification:** LERT session (Part III)