

Oral Presentations at LLRF09 (19-22, October 2009)

(Revised on 15, Oct.)

| Date / Session | Time | Time | Title | Speaker | Affiliation | Type of Presentation | Talk ID | Submission Number |
|---|-------------|-------------|--|-----------------------|--------------------------|----------------------|---------|-------------------|
| 19, Monday / Morning Session (Session Chair: L. Doolittle) | | | | | | | | |
| | 09:20-09:40 | | Opening Remarks | | | | | |
| | 09:40-12:30 | | Lab Talks | | | | | |
| | | 09:40-10:10 | Progress with RF LL developments and commissioning at CERN 2007-2009 | Wolfgang Hofle | CERN | Oral-30min | MOAM101 | 80 |
| | | 10:10-10:40 | LLRF developments at Cornell University | Sergey Belomestnykh | Cornell Univ. | Oral-30min | MOAM102 | 63 |
| | | 10:40-11:00 | Coffee Break | | | | | |
| | | 11:00-11:30 | DESY Lab Talk | Markus Hoffmann | DESY | Oral-30min | MOAM103 | 17 |
| | | 11:30-12:00 | Fermilab Low Level RF Project Status and Future Directions | Brian Chase | FNAL | Oral-30min | MOAM104 | 117 |
| | | 12:00-12:30 | Detuning and Field control of CW Superconducting Cavities at HoBiCaT | Axel Nuemann | Helmholtz Zentrum Berlin | Oral-30min | MOAM105 | 70 |
| | 12:30-13:40 | | Lunch | | | | | |
| 19, Monday / Afternoon Session_1 (Session Chair: S. Simrock) | | | | | | | | |
| | 13:40-15:30 | | Lab Talks | | | | | |
| | | 13:40-14:00 | RF Controls at Jefferson Lab | Curt Hovater | Jefferson Lab | Oral-20min | MOPM101 | 126 |
| | | 14:00-14:30 | Summary of J-PARC and KEK LLRF Systems | Tetsuya Kobayashi | J-PARC Center, JAEA | Oral-30min | MOPM102 | 121 |
| | | 14:30-15:00 | Review of LLRF Activities at Los Alamos National Laboratories | Mark Prokop | LANL | Oral-30min | MOPM103 | 32 |
| | | 15:00-15:30 | Spallation Neutron Source RF Systems - Lab Talk | Thomas Hardek | ORNL | Oral-30min | MOPM104 | 118 |
| | 15:30-16:00 | | Coffee Break | | | | | |
| 19, Monday / Afternoon Session_2 (Session Chair: M. Crofford) | | | | | | | | |
| | 16:00-18:00 | | Summary Talks and Invited Talks | | | | | |
| | | 16:00-16:30 | SRF summary | Yasuchika Yamamoto | KEK | Oral-30min | MOPM105 | 130 |
| | | 16:30-17:00 | ICALEPCS summary | Kazuro Furukawa | KEK | Oral-30min | MOPM106 | 128 |
| | | 17:00-17:20 | Results of the FLASH 9mA Studies | John Carwardine | ANL | Oral-20min | MOPM107 | 122 |
| | | 17:20-17:40 | Commissioning the LHC LLRF at start-up 2008 | Philippe Baudrengnien | CERN | Oral-20min | MOPM108 | 24 |
| | | 17:40-18:00 | LCLS RF Control Systems | Ron Akre | SLAC | Oral-20min | MOPM109 | 10 |
| 20, Tuesday / Morning Session_1 (Session Chair: C. Hovater) | | | | | | | | |
| | 09:00-10:00 | | Digital Signal Processing in LLRF (Tutorial/Overview) | Stefan Simrock | DESY | Oral-60min | TUAM101 | 9 |
| | 10:00-11:20 | | Invited Talks and Contributed Talks | | | | | |
| | | 10:00-10:20 | ATCA-based LLRF system for XFEL - Demonstration at FLASH (DESY) | Waldemar Koprek | DESY | Oral-20min | TUAM102 | 79 |
| | | 10:20-10:40 | Operational Aspects and Experiences of the SNS LLRF System | Sang-Ho Kim | ORNL | Oral-20min | TUAM103 | 119 |
| | | 10:40-11:00 | Coffee Break | | | | | |
| 20, Tuesday / Morning Session_2 (Session Chair: S. Michizono) | | | | | | | | |

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| | | 11:00-11:20 | Characterization and Measurement Techniques of LLRF Systems | Uros Mavric | Instrumentation Technologies | Oral-20min | TUAM104 | 100 |
| | 11:20-12:30 | | Company Presentations | | | | | |
| | 12:30-13:30 | | Lunch | | | | | |
| 20, Tuesday / Afternoon Session_1 (Session Chair / Convener: S. Simrock) | | | | | | | | |
| | 13:30-15:30 | | Working Group 1 | | | | | |
| | | | Digital LLRF for IFMIF-EVEDA | Angela Salom | Sincrotron ALBA - CELLS | Oral-15min | TUWG101 | 1 |
| | | | Demonstration of LIBERA LLRF at Daresbury and DESY | Borut Baricevic | Instrumentation Technologies | Oral-15min | TUWG102 | 34 |
| | | | Digital LLRF controller for SSRF storage ring | Yubin Zhao | Shanghai Inst. of Applied Physics | Oral-15min | TUWG103 | 54 |
| | | | ATCA carrier board for LLRF system of XFEL accelerator | Dariusz Makowski | Technical Univ. of Lodz | Oral-15min | TUWG104 | 97 |
| | | | Electron Model for Many Applications (EMMA) Non Scaling FFAG RF System | Peter Corlett | Daresbury | Oral-15min | TUWG105 | 131 |
| | | | Discussion | | | | | |
| 20, Tuesday 15:30-17:30 Poster Session | | | | | | | | |
| | 18:30-20:30 | | Workshop Dinner | | | | | |
| 21, Wednesday / Morning Session (Session Chair: B. Chase) | | | | | | | | |
| | 09:00-10:00 | | Timing and Synchronization (Tutorial/Overview) | Krzysztof Czuba | ISE | Oral-60min | WEAM101 | 129 |
| | 10:00-12:20 | | Invited Talks and Contributed Talks | | | | | |
| | | 10:00-10:20 | Application Software for LLRF Control | Zheqiao Geng | DESY | Oral-20min | WEAM102 | 14 |
| | | 10:20-10:40 | Development Status of XFEL/SPring-8 LLRF system | Yuji Otake | RIKEN | Oral-20min | WEAM103 | 96 |
| | | 10:40-11:00 | Coffee Break | | | | | |
| | | 11:00-11:20 | Cavity Control Algorithms | Tomasz Plawski | Jefferson Lab | Oral-20min | WEAM104 | 62 |
| | | 11:20-11:40 | LLRF Operation Experience at FLASH | Valeri Ayvazyan | DESY | Oral-20min | WEAM105 | 21 |
| | | 11:40-12:00 | Remote Configuration Matlab Based Tools for the LHC LLRF Cavity Feedback Systems | Daniel Van Winkle | SLAC | Oral-20min | WEAM106 | 20 |
| | | 12:00-12:20 | LLRF and RF system models for the LHC with Application to Longitudinal Dynamics Effects | Themistoklis Mastorides | SLAC | Oral-20min | WEAM107 | 107 |
| | 12:20-13:30 | | Lunch / Program Committee meeting | | | | | |
| 21, Wednesday / Afternoon Session_1 (Session Chair / Convener: W. Hofle) | | | | | | | | |
| | 13:30-15:30 | | Working Group 2 | | | | | |
| | | | Combined Multivariable Linear Feedback and Iterative Learning Control applied to the RF System at FLASH | Christian Schmidt | DESY | Oral-15min | WEWG201 | 4 |
| | | | Optimizing Cavity Gradients in Pulsed Linacs using the Cavity Transient Response | Gustavo Cancelo | FNAL | Oral-15min | WEWG202 | 5 |
| | | | Initial RF and LLRF estimates for a PEP-X Light Source | Claudio Rivetta | SLAC | Oral-15min | WEWG203 | 108 |
| | | | Maximum gradient sum of an RF station using simulation | Julien Branlard | FNAL | Oral-15min | WEWG204 | 123 |
| | | | Discussion | | | | | |

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| | 15:30-16:00 | | Coffee Break | | | | | |
| 21, Wednesday / Afternoon Session_2 (Session Chair / Convener: M. Crofford) | | | | | | | | |
| | 16:00-18:00 | | Working Group 3 | | | | | |
| | | | Status of LLRF in TRIUMF | Ken Fong | TRIUMF | Oral-15min | WEWG301 | 13 |
| | | | Synchronizing the J-PARC proton beam | Masahito Yoshii | KEK | Oral-15min | WEWG302 | 38 |
| | | | XFEL LLRF system installation | Wojciech Wierba | IFJ PAN | Oral-15min | WEWG303 | 46 |
| | | | Experience with the new master oscillator at FLASH | Henning Christof Weddig | DESY | Oral-15min | WEWG304 | 120 |
| | | | LLRF operational experience at SNS | Mark Crofford | ORNL | Oral-15min | WEWG305 | 124 |
| | | | Discussion | | | | | |
| 22, Thursday / Morning Session (Session Chair: W. Hofle) | | | | | | | | |
| | 09:00-11:50 | | Invited Talks and Contributed Talks | | | | | |
| | | 09:00-09:20 | Digital Self Excited Loop Implementation and Experience | Curt Hovater | Jefferson Lab | Oral-20min | THAM101 | 125 |
| | | 09:20-09:40 | Experience with Digital Phase Control to 0.03 degrees in S Band | Lawrence Doolittle | LBNL | Oral-20min | THAM102 | 101 |
| | | 09:40-10:00 | Survey of the Precise Timing/Synchronization System for ERL | Takashi Obina | KEK | Oral-20min | THAM103 | 55 |
| | | 10:00-10:20 | Beam commissioning with digital LLRF control system in the J-PARC synchrotrons | Fumihiko Tamura | J-PARC Center, JAEA | Oral-20min | THAM104 | 37 |
| | | 10:20-10:40 | Piezo control for LFD compensation | Mariusz Grecki | DESY | Oral-20min | THAM105 | 76 |
| | | 10:40-11:00 | Coffee Break | | | | | |
| | | 11:00-11:20 | FPGA based IF receiver System for LLRF Measurement and Control of LANSCE Accelerator | Sungil Kwon | LANL | Oral-20min | THAM106 | 103 |
| | | 11:20-11:50 | Eliminating Risk from Future LLRF Projects | Lawrence Doolittle | LBNL | Oral-30min | THAM107 | 127 |
| | 11:50-12:00 | | Closing Remarks | | | | | |
| | 12:00-13:00 | | Lunch | | | | | |
| 22, Thursday 13:00-18:00 J-PARC Tour (Pre-Registration required) | | | | | | | | |