

I.FAST Workshop 2024 on Bunch-by-Bunch Feedback Systems and Related Beam Dynamics



Report of Contributions

Contribution ID: 19

Type: **Oral presentation**

The Impact of the BEPCII Transverse Feedback system on Horizontal Synchro-Betatron resonances due to Beam-Beam Interaction

Monday, March 4, 2024 1:50 PM (25 minutes)

Remote session

Session categories

Presenter: YIN, Di (IHEP)

Session Classification: Beam instrumentation and high power systems

Contribution ID: 20

Type: **Oral presentation**

Feedback system for Hybrid Filling with Large Bunch Current Contrast

Monday, March 4, 2024 9:30 AM (25 minutes)

Session categories

Presenter: NAKAMURA, Takeshi (KEK)

Session Classification: Beam instrumentation and high power systems

Contribution ID: 22

Type: **Oral presentation**

Beam instrumentation and high power systems: Short discussion

Monday, March 4, 2024 2:15 PM (10 minutes)

Session categories

Session Classification: Beam instrumentation and high power systems

Contribution ID: 24

Type: **Oral presentation**

Bunch-by-bunch feedback systems in KARA

Monday, March 4, 2024 10:20 AM (25 minutes)

Session categories

Presenter: BLOMLEY, Edmund (KIT)

Session Classification: Beam instrumentation and high power systems

Contribution ID: 25

Type: **Oral presentation**

Bunch-by-bunch feedback in the BessyII Booster

Monday, March 4, 2024 11:05 AM (25 minutes)

Session categories

Presenter: JILL MCATEER, Meghan (HZB)

Session Classification: Beam instrumentation and high power systems

Contribution ID: 27

Type: **Oral presentation**

Longitudinal Feedback Using a Low-pass Differentiator

Monday, March 4, 2024 2:25 PM (25 minutes)

Session categories

Presenter: TEYTELMAN, Dmitry (Dimtel. Inc.)

Session Classification: Hardware for fast signal processing

Contribution ID: 28

Type: **Oral presentation**

Bunch-by-Bunch observation, feedback and manipulation using the DLS-MBF in BESSY

Monday, March 4, 2024 2:50 PM (25 minutes)

Session categories

Presenter: REHM, Günther (HZB / DLS)

Session Classification: Hardware for fast signal processing

Contribution ID: 29

Type: **Oral presentation**

RFSoc-based digital signal processing for SLS2.0 multi-bunch feedback system

Monday, March 4, 2024 3:15 PM (25 minutes)

Session categories

Presenter: BAETA, Pedro (PSI)

Session Classification: Hardware for fast signal processing

Contribution ID: **30**

Type: **not specified**

Hardware for fast signal processing: Short discussion

Monday, March 4, 2024 4:05 PM (10 minutes)

Session categories

Session Classification: Hardware for fast signal processing

Contribution ID: 31

Type: **Oral presentation**

Transverse collective effects simulation with bunch-by-bunch feedback

Monday, March 4, 2024 5:00 PM (25 minutes)

Session categories

Presenter: GUBAIDULIN, Vadim (SOLEIL)

Session Classification: Related beam dynamics

Contribution ID: 32

Type: **Oral presentation**

Modelling of the longitudinal bunch by bunch feedback including harmonic cavities

Monday, March 4, 2024 5:25 PM (25 minutes)

Session categories

Presenter: DEHLER, Micha (PSI)

Session Classification: Related beam dynamics

Contribution ID: 33

Type: **Oral presentation**

Bunch Pitch/Yaw Monitor Development and Proposal of Pitch/Yaw Feedback

Tuesday, March 5, 2024 9:50 AM (25 minutes)

Session categories

Presenter: NAKAMURA, Takeshi (KEK)

Session Classification: Applications and new ideas

Contribution ID: **34**

Type: **not specified**

Related beam dynamics: Short discussion

Monday, March 4, 2024 6:15 PM (10 minutes)

Session categories

Session Classification: Related beam dynamics

Contribution ID: **38**

Type: **not specified**

Applications and new ideas: Short discussion

Tuesday, March 5, 2024 10:15 AM (10 minutes)

Session categories

Session Classification: Applications and new ideas

Contribution ID: 40

Type: **Oral presentation**

Beam emittance control and investigations at Diamond Light Source

Tuesday, March 5, 2024 9:00 AM (25 minutes)

Presenter: MORGAN, Alun (DLS)

Session Classification: Applications and new ideas

Contribution ID: 41

Type: **Oral presentation**

Elettra Multi-Bunch Feedback systems and applications

Tuesday, March 5, 2024 9:25 AM (25 minutes)

Session categories

Presenter: LONZA, Marco (ELETTRA)

Session Classification: Applications and new ideas

Contribution ID: 42

Type: **Oral presentation**

SOLEIL transverse bunch-by-bunch feedback system

Monday, March 4, 2024 9:55 AM (25 minutes)

Session categories

Presenter: GAMELIN, Alexis (SOLEIL)

Session Classification: Beam instrumentation and high power systems

Contribution ID: 43

Type: **Oral presentation**

Transverse feedback in Large Hadron Collider - a Swiss tool for LHC

Monday, March 4, 2024 11:30 AM (25 minutes)

Session categories

Presenter: VALUCH, Daniel (CERN)

Session Classification: Beam instrumentation and high power systems

Contribution ID: 44

Type: **Oral presentation**

Multi-bunch longitudinal beam-dynamics code for the DAFNE rings

Monday, March 4, 2024 4:35 PM (25 minutes)

Remote session

Session categories

Presenter: QUARTULLO, Danilo (INFN-LNF)

Session Classification: Related beam dynamics

Contribution ID: 47

Type: **Oral presentation**

Bunch-by-bunch feedback system for PETRA IV

Monday, March 4, 2024 3:40 PM (25 minutes)

Session categories

Presenter: PFEIFFER, Sven (DESY)

Session Classification: Hardware for fast signal processing

Contribution ID: 48

Type: **Oral presentation**

Modelling of RF feedbacks for tracking simulations in hadron synchrotrons (tentative)

Monday, March 4, 2024 5:50 PM (25 minutes)

Session categories

Presenter: KARLSEN-BAECK, Birk Emil (CERN)

Session Classification: Related beam dynamics

Contribution ID: 49

Type: **Oral presentation**

Bunch-by-bunch feedback systems for SuperKEKB collider

Monday, March 4, 2024 1:25 PM (25 minutes)

Remote session

Session categories

Presenter: TOBIYAMA, Makoto (KEK)

Session Classification: Beam instrumentation and high power systems