

Session Program

Oct 13 - 15, 2026



LLRF Topical Workshop on Advanced Feedback Control (TWOAFC)

Control Loop Modeling, Tuning and Optimization

Nova Gorica, Slovenia

Tue, October 13

9:45 AM

Control Loop Modeling, Tuning and Optimization

Session | **Location:** Nova Gorica, Slovenia

9:45 – 10:15 AM

Minimizing the RF Beam Component During Bunch Splitting in the EIC

Speaker

Arshdeep Singh

10:15 – 10:45 AM

A new scheme for beam-loading compensation at HL-LHC injection

Speaker

Birk Emil Karlsen-Baek

10:45 AM

11:10 AM

Control Loop Modeling, Tuning and Optimization

Session | **Location:** Nova Gorica, Slovenia

11:10 – 11:40 AM

RF cavity feedback for high-intensity counter-rotating beams in the proposed muon collider RCS chain

Speaker

Leonard Thiele

11:40 AM

1:55 PM

Control Loop Modeling, Tuning and Optimization

Session | **Location:** Nova Gorica, Slovenia

1:55 – 2:25 PM

Analysis and Suppression of Ponderomotive Instabilities in SRF Cavities

Speaker

Jiayi Peng

2:25 – 2:55 PM

Simulation Study of Three-bunch Operation Methods for SwissFEL Upgrade

Speaker

Zheqiao Geng

2:55 – 3:35 PM

Multivariable Integration of RF Phase Actuation into Fast Orbit Feedback

Speaker

Idris Kempf

3:35 PM

Wed, October 14

9:05 AM

Control Loop Modeling, Tuning and Optimization

Session | **Location:** Nova Gorica, Slovenia

9:05 – 9:35 AM

A Systematic Methodology for equivalent Circuit Modelling of Particle Accelerator Resonant Cavities for Control Applications

Speaker

Beñat González

9:35 – 10:05 AM

Comparative Analysis Of Varying Feedback Configurations For An RF System

Speaker

Arshdeep Singh

10:05 AM

Thu, October 15

2:45 PM

Control Loop Modeling, Tuning and Optimization

Session | **Location:** Nova Gorica, Slovenia

3:15 PM

2:45 – 3:15 PM

Active Noise Cancellation Measurements on LCLS-II SRF Cavities

Speaker

Andy Benwell