Preliminary schedule

Day	Wed 02/10 Thu 03/10		Fri 04/10		Sat 05/10		
	Living Room 1+2	Seminar room 2013/2014	Living Room 1+2	Seminar room 2013/2014	Living Room 1+2	Seminar room 2013/2014	Living Room 1+2
9:00 9:10 9:20			*T. Gorlov (ORNL): Photoionization of negative hydrogen ion beam	*S. Appel (GSI): Machine learning and advanced accelerator optimisation at GSI/FAIR	*E. Valetov (MSU): Beam dynamics for the Muon g-2 experiment	 S. Alshammari (KACST): Ion optical calculations of high resolution analyzing magnet system for heavy molecular ions at KACST D. Paudel (CERN): Data-driven modeling of quenches in 	*JL. Vay (LBNL): Overview of US SciDAC5 accelerator modeling project
9:30 9:40 9:50			*L. Ge (SLAC): Integrated simulation of cavity design and radiation transport codes (ACE3P + Geant4)	V. Isensee (TUDa): Physics-informed bayesian optimization for closed orbit correction in synchrotrons O. Kazinova (TUDa): Beam loss minimization for SIS18	*Y. Hao (MSU): A Julia package for auto- differentiation application accelerator modeling and tracking	superconducting accelerator magnets M. Liebsch (CERN): Integration of magnetic measurement data in magnetic field simulations by BEM- based discrepancy modeling	*M. Berz (MSU): Nonlinear beam dynamics tools for field treatment, symplectic tracking and spin in COSY INFINITY
10:00 10:10			S. Udongwo (Uni Rostock): CAV-SIM-2D: a simulation and analysis tool for 2D axisymmetric accelerator cavity geometries	slow extraction D. Dewitt (TUDa): Gradient based beam line optimization for laser-accelerated ions using surrogate models	L. Riik: Simulation of driven plasma modes in Penning- Malmberg traps	E. Paakkunainen (TUDa): Homogenization of HTS magnet coils using the foil conductor model	*A. Edelen (SLAC): Machine learning using Bayesian optimization
10:20 10:30 10:40	Registration		Cof	ffee	Co	ffee	N. Cook (RadiaSoft). Integrating community codes for- accelerator design and optimization
10:50 11:00 11:10	& & Welcome Coffee		*B. Cathey (ORNL): PyORBIT as an online model and virtual accelerator at SNS	*M. Wozniak (CERN): Simuation of quench protection systems of next generation superconduction magnets	*WY. Chang (NSRRC): Computational challenges in the development of a THz FEL at National Synchrotron Radiation Research Center	*T. Egenolf (TUDa): Fast surrogate models for dielectric laser accelerator diagnostics	Coffee
11:20 11:30 11:40			S. Appel (GSI): Data-driven model predictive control for automated optimization of injection into the SIS18 synchrotron	J-M. Christmann (TUDa): Efficient nonlinear simulations of fast corrector magnets	E. Gjonaj (TUDa): Modeling of intrabeam scattering in electron injectors	M. Konrad (FAU): Gradient descend-based optimization of the acceleration field in sub-relativistic dielectric laser accelerators using the adjoint method	Closing
11:50 12:00			A. M. Guisao Betancur (University of Liverpool): Longitudinal profile reconstruction of ultrashort electron bunches with coherent transition radiation images and assemble does logaring models.	D. Moll (TUDa): Transient analysis of fast ramping normal-conducting muon-collider magnets	M. Bulgacheva (TUDa): Simulation study of nanostructured copper photocathodes	W. An (Beijing Normal University): Recent development on the quasi-static PIC code QuickPIC and QPAD	
12:10 12:20 12:30	Lunch		E. Musa (DESY): Tuning simulations for FCC-ee using Python Accelerator Toolbox	L. D'Angelo (TUDa): Modeling screening currents in a reduced magnetic vector potential formulation with higher-order magnetic moments	J. Christ (TUDa): A self-consistent model for wakefield and space charge calculations	D. Simeoni (INFN): A Lattice Boltzmann approach to plasma simulation in the context of wakefield acceleration	Lunch
12:40 12:50			Lunch		Lunch		
13:10 13:20							
13:30 13:40	Opening						*Invited talks*
13:30 14:00 14:10	*C. Badarola (CERN): Suite: a multiplatform toolbox for optics design, fast tracking, collimation and collective effects *I. Karpov (CERN): Longitudinal beam dynamics simulations K. Makino (MSU): Rigorous bounds for the errors of high-order transfer maps K. Makino (MSU): Negorous bounds for the errors of lectron clouds effects from the immer triplets of the Large Hadron Collider Coffee		*K. Ruisard (ORNL): Benchmark of LINAC model and phase space measurements at the SNS Beam Test Facility	*F. Van der Veken (CERN): Introducing Xcoll: a streamlined approach to collimation and beam loss simulations using Xsuite	Excursion		Contributed talks
14:20 14:30 14:40			*S. Y. Teng (NCU): Numerical simulation of a laser plasma driven HGHG FEL	*L. Deniau (CERN): MAD-NG, a standalone multiplatform tool for non-linear optics design and optimisation and successor to MAD-X			20 minutes including questions
14:50 15:00 15:10			L. Thiele (Uni Rostock): Beam-cavity interactions in the rapid cycling synchrotron chain of the future muon collider	M. Signorelli (Cornell University): SciBmad: a full- featured ecosystem for modern, differentiable accelerator physics simulations			
15:20 15:30				D. Sagan (Cornell University): SciBmad Collaboration Discussion			Color code = conference topic
15:40 15:50 16:00			Сопее				A-1 A-2 B-1
16:10 16:20	*J. Qiang (LBNL): Advances in modeling space- charge effects	 LIU (LENL): Green's function-based methods for modeling electromagnetic interaction between RF accelerator cavity and electron bunch E. Owstoker (TUDo): Schurger domain dom	C. Mittchell (LENL): tools for modeling beam dynamics in rings based on nonlinear integrable optics	*C. Huang (LANL): Simulation advances in coherent synchrotron radiation modeling	erent sat lead		B-2 C-1
16:30 16:40	*M. Schenk (CERN): Automation and Al integration at the CERN injectors	 excession (107a), sciwarz domain decomposition with the modal transmission condition applied to an in- vacuum undulator at PETRA III, DESY E. de la Fuenta Garcia (CERN): "wakie": an one-source 	C. Xu (KIT): Cheetah - a high-speed differentiable beam dynamics simulation for machine learning applications	A. Alrashdi (KACST): Applications of gamma-rays at future intense positron sources K. S. Alharbi (KACST): Investigating the			C-2 D-1
16:50 17:00 17:10	N-Cook (RadiaSoft): Coupled simulations of collimator- irradiation in fourth generation light sources	3D time-domain electromagnetic solver for beam- coupling impedance calculation	 E. Valetov (MSU): New muon campus simulations for the muon g^-2 experiment at Fermilab S. Sorge (GSI): Determination of uncontrolled beam loss 	appropriateness of a shorter period of a non-ideal helical undulator for the ILC-250 stage			E-1 F-2
17:20		impedance from eigenmode results	and spill micro structures during slow extraction for the future FAIR synchrotron SIS100 with particle tracking	Simulation Development Collaboration Discussion			F-1