6th Microbunching Workshop, 6-8 October 2014: Program

<u>Monday 6</u>

Session Mo	-1: Codes – I	Chair: S. Di Mitri (Elettra)
8:15-8:45	Registration	
8:45	Opening by M. Svandrlik (Elettra Sincrotrone Trieste)	
9:00	M. Venturini (LBNL), "High-resolut studies in the presence of 3D effects"	c ,
9:30	R. Li (JLAB), "Update on 2D CSR effec	ts″
10:00	Discussion	
10:30	Coffee Break	
Session Mo	-2: Codes – II Chair	: L. Giannessi (Elettra & ENEA)
11:00	G. Bassi (BNL), "CSR and microbunch	ing in bunch compressors"
11:30	J. Esberg (CERN), "1D CSR with shield	ing in the PLACET code"
12:00	B. Terzic (Old Dominion Univ.), "High on GPUs"	-performance CSR simulations
12:30	Discussion	
13:00	Lunch	
Session Mo	-3: CSR and Microbunching in Arcs	Chair: M. Cornacchia (Elettra)
14:30	Y. Jiao (IHEPB), "Controlling CSR-in DBAs"	nduced emittance growth in
15:00	D. Douglas (JLAB), "Controlling CSR-i microbunching instability in ERL arcs	-
15:30	C. Hall (Colorado State Univ.), "CSR a driven FEL"	nd MBI effects in the JLAB ERL
16:00	Discussion	

17:00 End of Works

Tuesday 7

Session Tu-1: Injector and Laser Heater Chair: A. Cianchi (INFN) 9:00 X. Yang (BNL), "Seeding, controlling, and benefiting from the microbunching instability" S. Bettoni (PSI), "Pulse stacking and microbunching instability: 9:30 simulations and measurements at the SwissFEL Injector" 10:00 Discussion 10:30 Coffee Break M. Dohlus (DESY), "Simulation of the trickle heating effect at the 11:00 EuXFEL" 11:30 E. Ferrari (Elettra), "Benefits of the laser heater induced energy spread for COTR and high harmonic conversion in HGHG FEL" 12:00 Discussion 12:30 Lunch Session Tu-2: LSC Amplifiers Chair: A. Meseck (HZB) C. Lechner (Hamburg Univ.), "Experimental studies on FEL gain 14:00 controlled laser-induced longitudinal bv space charge amplification" 14:30 K. Hacker (TU Dortmund Univ.), "Longitudinal space charge assisted Echo-seeding of a free-electron laser with laser-spoiler noise suppression"

- 15:00 A. Gover (Tel Aviv Univ.), "Short wavelength limits for control and measurement of collective micro-dynamic noise-suppression/gain"
- 15:30 Discussion
- 16:30 End of Works
- 19:00 Social Dinner at the Savoia Hotel

<u>Wednesday 8</u>

Session We-1: Diagnostics

Chair: S. Biedron (CSU)

8:30	P. Krejcik (SLAC), "Diagnostics for measuring and mitigating femtosecond microbunches at the LCLS"	
9:00	T. Maxwell (SLAC), "MBI studies with the LCLS X-band transverse deflector"	
9:30	G.L. Orlandi (PSI), "Overview of transverse profile monitors in SwissFEL"	
10:00	Discussion	
10:30	Coffee Break	
Session We-2: Microbunching Instability in Rings Chair: M. Venturini (LBNL)		
11:00	C. Evoin (CNDC) "Microhunghing instability in rings"	
11.00	C. Evain (CNRS), "Microbunching instability in rings"	
11:30	C. Evall (CNRS), "Microbunching instability in rings A. Chao (SLAC), "Steady-state microbunched beam in a storage ring for EUV radiation"	
	A. Chao (SLAC), "Steady-state microbunched beam in a storage ring	
11:30	A. Chao (SLAC), "Steady-state microbunched beam in a storage ring for EUV radiation"	
11:30 12:00	A. Chao (SLAC), "Steady-state microbunched beam in a storage ring for EUV radiation" Discussion	
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11:30 12:00 12:30 13:00	 A. Chao (SLAC), "Steady-state microbunched beam in a storage ring for EUV radiation" Discussion Chairs Summaries (20' total). End of the Workshop. Transfer to Elettra Sincrotrone Trieste 	