



# ICFA mini-WORKSHOP ON IMPEDANCES AND BEAM INSTABILITIES IN PARTICLE ACCELERATORS

## Thursday, 21 September 2017

**Session: 4: Instability theory and modeling (Chair: Ingo Hofmann. Scientific secretary: Adrian Oeftiger) - San Vittorino Hall (09:00 - 12:10)**

**-Conveners: Ingo Hofmann**

time	[id] title	presenter
09:00	[32] Role of space charge in coherent instabilities	Dr BLASKIEWICZ, Mike
09:20	[34] Chromaticity effects on head-tail instabilities for broad-band impedance using two particle model, Vlasov analysis, and simulations	Dr CHIN, Yong Ho
09:40	[85] TMCI at strong space charge	Dr ZOLKIN, Timofey
10:00	[33] Microbunching instability	Dr RATNER, Daniel
10:20	Coffee break	
10:50	[37] Circulant matrix formalism, benchmarks and beam-beam effect in coherent instabilities	Dr BUFFAT, Xavier
11:10	[111] How e-cloud in dipoles and quadrupoles can be source of transverse instabilities	Ms ROMANO, Annalisa
11:30	[35] Modeling of fast beam ion instabilities	METHER, Lotta
11:50	[39] Longitudinal and transverse ions cloud dynamics in an electron ring in presence of electromagnetic fields and gaps	Mr GAMELIN, Alexis