

Frequency Map Analysis Workshop

Orsay, April 1st and 2nd 2004 LURE, Building 209D, room 110

	Boxes, Building 2000, Toolii 110	
Thursday April, 1st:		
	Chairman : D. Robin	
9:00-9:15	Welcome and Introduction to the target of the workshop A. Nadji (SOLEIL)	
9:15-10:00	Frequency Map Analysis J. Laskar (IMCCE)	
10:00-10:30	Guiding lines for computing and reading a Frequency Map and new FMA calculations for SOLEIL including Insertion Devices effects. L. Nadolski (SOLEIL)	
10:30-11:00	Discussion	
11:00-11:20	Coffee break	
(1) Use of the FMA at the level design of a lattice		
	Chairman : L. Nadolski	
11:20 -11:35	FMA calculation for the ALS D. Robin (ALS)	
11:35-11:50	Frequency maps for designing proton accelerators Y. Papaphilippou (ESRF)	
11:50-12:05	Role of the FMA in the choice of the working point of SOLEIL M. Belgroune (SOLEIL)	
12:05 -12:50	Discussion	
12:50-14:00	Lunch	
(2) Experimental Frequency maps		
Chairman : L. Farvacque		
14:00-14:45	FMA experiments at the ALS D. Robin (ALS)	
14:45-15:30	Measured and calculated frequency maps for the BESSYII storage ring P. Kuske (BESSYII)	

15:30-15:45	Recent experimental Frequency maps at Bessy II and SLS M. Belgroune (SOLEIL)	
15:45-16:15	Discussion	
16:15-16:45	Coffee break	
16:45-17:15	Experimental Frequency Maps for the ESRF Storage Ring Y. Papaphilippou (ESRF)	
	(3) Diagnostics and technical details of the measurements	
Chairman : P. Kuske		
17:15-17:30	Description of the experimental set up at ESRF L. Farvacque (ESRF)	
17:30-17:45	Description of the experimental set up at the SLS M. Munoz (SLS)	
17:45-18:30	Discussion	
19:30	rendezvous to go to the restaurant	
20:00	Dinner	
Friday, April	2 nd :	
	Chairman : Y. Papaphilippou	
9:00-9:30	Comparison between simulation and experiment on injection beam loss in the SPring8 storage ring H. Tanaka (SPring8)	
9:30-9:50	Analyzing combined space charge and lattice nonlinearities based on an experiment at the CERN PS G. Franchetti (GSI)	
9:50-10:10	Frequency Map Analysis and Hilbert Transform for experimental resonance investigation at Elettra. S. Di Mitri (Elettra)	

10:10-10:40

Discussion

10:40-11:00	Coffee break	
Chairman : J. Laskar		
11:00-11:30	Nonlinear correction steering of the LHC using Harmonic analysis F. Schmidt (CERN)	
11:30-12:00	Studies on lattice calibration with frequency analysis of betatron oscillations R. Bartolini (DIAMOND)	
12:00-12:30	Discussion	
12:30-14:00	Lunch	
Chairman : A. Ropert		
14:00-14:15	Refinements of the non-linear lattice model for the BESSYII storage ring P. Kuske (BESSYII)	
14:15-15:00	Global discussion on the importance of a very detailed model of the nonlinear fields	
Chairman : A. Nadji		
15:00-15:30	General discussion, future plans, collaboration,	
15:30-16:00	Conclusion J. M. Filhol (SOLEIL)	

END OF THE WORKSHOP