

Photo Injector Test facility at DESY, Zeuthen site.

Mini-workshop on THz option at PITZ, Zeuthen, 22.09.2015

Main ideas for a one-day brainstorming:

- what are the advantages of THz generated by a separate accelerator and what are possible requests from users, a first guess
- to present current status of simulations and discuss future possibilities to produce THz radiation using the PITZ linac
- to establish collaboration for these scientific case studies
- to make a road map (in the case of reasonable proposals)

PITHz Agenda

Time	Session	Room			Time		
9:00	morning session	PITZ control room	Welcome				
9:15			Motivation of THz option at PITZ	Pump&Probe	M. Yurkov, E.Shneydmiller	15+5	
9:30				Eexperience at the FHI FEL	W. Schoellkopf (FHI)	15+5	
9:45						30+10	
10:00				PITZ: facility overview	M.Krasilnikov		
10:15							
10:30							
10:45			PITZ tour				
11:00			Coffee break				
11:15			1H102	Simulations of THz source at PITZ	Simulation of SASE FEL	P. Boonpornprasert	40+15
11:30					Simulation of CTR		
11:45					Discussion		
12:00							
12:15							
12:30		THz experience THz diagnostics		THz activities at HZDR	M.Gensch (HZDR)	15+5	
12:45				THz Wiggler applied for electron beam measurements	E. Syresin (JINR), M.Krasilnikov	15+5	
13:00				Discussion			
13:15	Lunch break						
13:30							
13:45							
14:00							
14:15							
14:30							
14:45			Coffee break				
15:00	evening session	1H102	Other options	Using pipe with corrugated walls	M.Dohlus	15+5	
15:15						I.Zagorodnov	15+5
15:30					THz Photo-Injector FEM with the Negative-Mass Bunch Stabilization	A.Savilov (IAP)	15+5
15:45							
16:00						Discussion	
16:15				Possible bunch compression schemes	BC simulations	G. Asova (INRNE)	15+5
16:30						A. Oppelt	
16:45					Velocity bunching		
17:00					Discussion		
17:15							
17:30							
17:45							
18:00							