



# THz@CLEAR

7 November 2017

CERN

Europe/Zurich timezone



[Overview](#)

[Timetable](#)

[Speaker List](#)

[Registration](#)

[Participant List](#)

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We are happy to welcome you at CERN for a one-day event on THz applications on the CLEAR facility. The main goals for the day are to review the possible applications of THz radiation on the CLEAR test facility and to discuss a realistic plan for beam-related tests on CLEAR in 2018.

The agenda of the event will be organised in 3 sessions:

1- Presentation of the facility

2- State of the art in THz applications, THz generation (including simulation tool) and THz detection techniques

3- Current and futur beam tests on CLEAR

followed by a general discussion on the plans for beam tests in 2018 and a visit of the CLEAR facility

09:00	<b>Presentation of the CLEAR facility</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Davide Gamba</i> 09:00 - 09:20
	<b>Presentation of the LEETCHI facility</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Kevin Pepitone</i> 09:30 - 09:50
10:00	<b>An overview of THz applications</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Prof. Frederic Garet</i> 10:00 - 10:20
	<b>Superradiant Transition and Diffraction radiation in the THz Region</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Alexander Potyitsyn</i> 10:30 - 10:50
11:00	<b>Coffee Break</b> 6-2-024 - BE Auditorium Meyrin, CERN	11:00 - 11:20
	<b>Smith-Purcell radiation in the THz regime</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Dr. Jacques Gardelle</i> 11:30 - 11:50
12:00	<b>Simulations of Diffraction and Cherenkov radiation using Magic and Particle studio</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Dr. Jacques Gardelle</i> 12:00 - 12:10
	Lunch	
13:00		
	<i>To be confirmed, CERN</i>	12:15 - 14:00
14:00	<b>Corrugated mm-scale capillary as compact accelerator and beam diagnostics</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Dr. Konstantin Lekomstev</i> 14:00 - 14:15
	<b>THz beam instrumentation and possible tests of Laser-based THz acceleration</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Steven Patrick Jamison</i> 14:20 - 14:35
	<b>Coherent Cherenkov radiation in Meta-materials</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Dr. Tom Vaughan</i> 14:40 - 14:55
15:00	<b>Diffraction Cherenkov studies on CLEAR</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Robert Kieffer</i> 15:00 - 15:15
	<b>THz@CLEAR: generation and characterization in view of THz-electron interaction experiments</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Alessandro Curcio</i> 15:20 - 15:35
	<b>Coffee Break</b> 6-2-024 - BE Auditorium Meyrin, CERN	15:40 - 16:10
16:00	<b>Tunable THz source based on the slotted-foil technique and transverse deflecting cavities</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Juergen Pfingstner @</i> 16:10 - 16:25
	<b>Overview of CTR microwave diagnostic in AWAKE</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Mikhail Martyanov</i> 16:30 - 16:45
17:00	<b>General Discussion</b> 6-2-024 - BE Auditorium Meyrin, CERN	<i>Roberto Corsini et al.</i> 17:00 - 18:00
18:00	<b>Visit of CLEAR</b> 6-2-024 - BE Auditorium Meyrin, CERN	18:00 - 19:00
19:00		