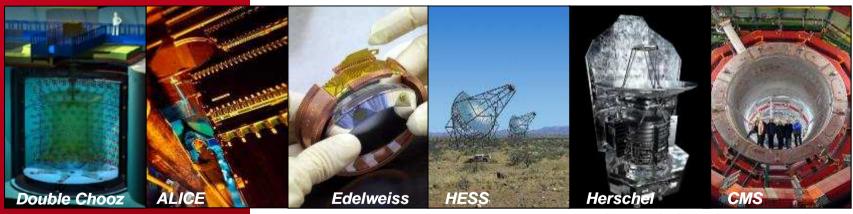
DE LA RECHERCHE À L'INDUSTRIE





WELCOME TO TTC WORKSHOP AT CEA-SACLAY

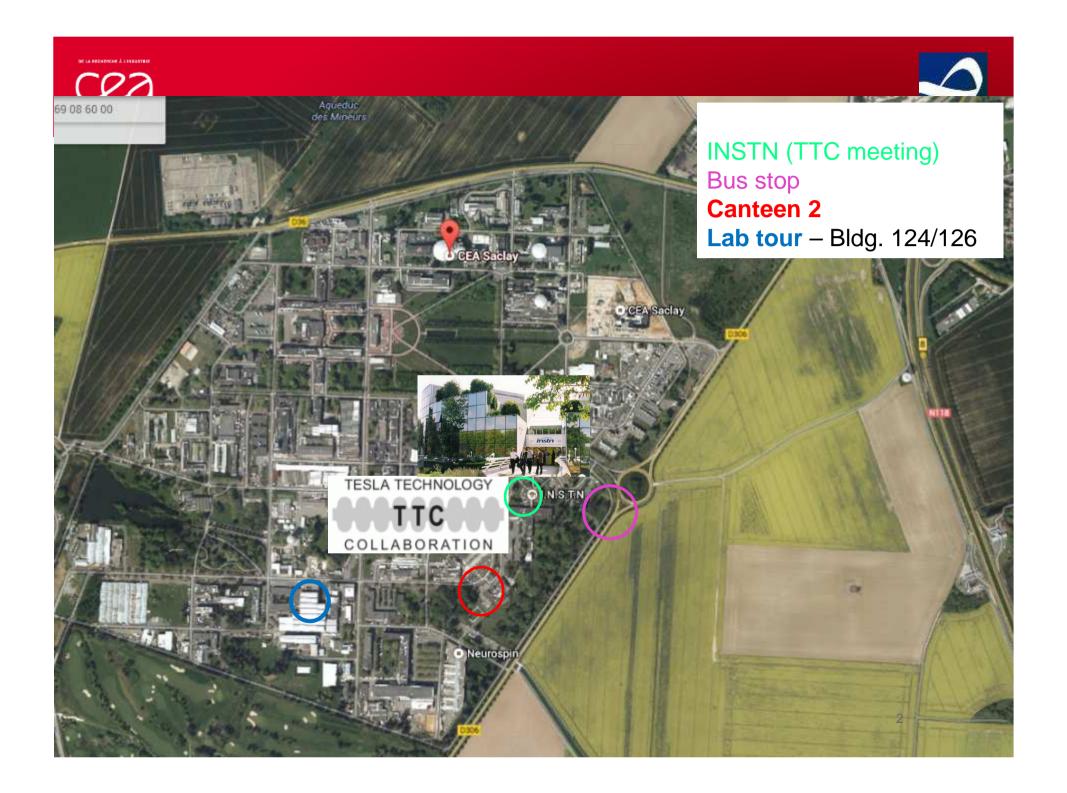


Detecting radiations from the Universe.

TTC 2016 - C. Madec

www.cea.fr







TTC2016 AT INSTN



INSTN stands for Institut National des Sciences et Techniques Nucléaires



Jules Horowitz (1921-1995) grew up in Poland and came to France. He studied at École polytechnique. He contributed to the nuclear research performed at Commissariat à l'énergie atomique (CEA) and, in 1970, created and was the first director of « l'institut de recherche fondamentale » of CEA now named Fundamental research department (Direction de la Recherche Fondamentale)

TTC 2016:

- 127 participants (+ locals)
- 69 contributions



AGENDA TUESDAY MORNING



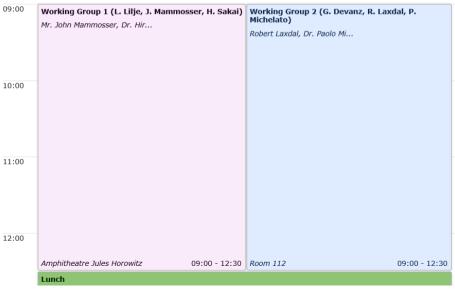
	Registration	
	INSTN Main Hall	08:30 - 09:00
09:00	CEA-Saclay welcome and logistics by Catherine MADEC	
	Amphitheatre Jules Horowitz	09:00 - 09:20
	Introduction and update from last collaboration meeting by Hasan PADAMSEE	
	Amphitheatre Jules Horowitz	09:20 - 09:40
	E-XFEL Module completion and repair activities - O. Napoly (CEA)	
10:00	Amphitheatre Jules Horowitz	09:40 - 10:10
	European XFEL injector beam commissioning - P. Pierini (INFN)	b
	Amphitheatre Jules Horowitz	10:10 - 10:40
	Coffee break	
		10:40 - 11:00
11:00	Progresses at FNAL/JLAB on LCLSII modules - C. Ginsburg (FNAL)	
	Amphitheatre Jules Horowitz	11:00 - 11:30
	Construction progress of bERLinPro at HZB - A. Neumann (HZB)	
	Amphitheatre Jules Horowitz	11:30 - 12:00
12:00	Results of the Main linac module of the Cornell ERL - R. Eichhorn (Cornell)	
	Amphitheatre Jules Horowitz	12:00 - 12:30
	Lunch	



TUESDAY AFTERNOON & WEDNESDAY MORNING WG1-WG2 PARALLEL SESSION









WG1 & WG2



WG1: Performance Degradation and Cures (L. Lilje, J. Mammosser, H. Sakai)

The general aim of WG1 is to gather and analyze the recorded degradations (or improvements) between vertical cavity tests and cryomodule performance for major accelerator projects (both high and low beta). Also gather data on any further degradation (or improvement) in the beam line and over time.

Questions:

What are the dominant limiting aspects - field emission, quench, Q-degradation, administrative limits, something else?

What measures have been tried to cure the degradations, and how successful are these attempts?

What efforts are underway or recommended to minimize contamination during cryomodule assembly and during connection to the beam line, such as particle-free vacuum components next to cold linac sections?

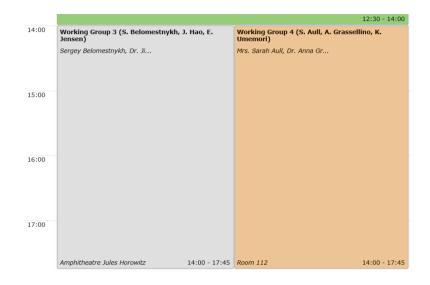
WG2: Protons and Ions Accelerators (G. Devanz, R. Laxdal, P. Michelato)

Major initiatives are well underway for ion accelerators for nuclear astrophysics, such as FRIB, RAON and others. With the success of SNS, high intensity proton accelerator projects are progressing, such as ESS, PIP-II, IndianSNS, along with ADS ambitions, such as CADS and IADS. The aim of WG2 is to address the major on-going issues for each type of accelerator, how these issues are being addressed, as well as the needed developments. Demonstrated and needed advances in couplers and tuners for both accelerator classes should be included.



WEDNESDAY AFTERNOON & THURSDAY MORNING WG3-WG4 PARALLEL SESSION







WG 3 & WG4



WG3: High current and CW accelerators (S. Belomestnykh, J. Hao, E. Jensen) With growing interest in a future Higgs factory e+ e- collider - either via the ILC path or the FCC-ee path - co-chairs should identify the key issues for SRF for such accelerators, and encourage short presentations that address these issues. Similarly SRF for CW light sources such as ERLs have seen significant advances, so that major issues for this topic should be addressed. Include storage rings light sources issues as appropriate. Demonstrated and needed advances in couplers and tuners for both accelerator classes should be included.

WG 4: The Performance Frontier (S. Aull, A. Grassellino, K. Umemori)

Three working groups have been active under the TTC umbrella: High Q for cryogenic cost reduction for CW accelerators at medium. gradients, High Gradients with Nb and Nb3Sn, and Thin film Nb-Cu for cost reduction. Please include on-going efforts on composite Nb-Cu. Explorations at these frontiers will benefit medium-term and far-term future accelerators under discussion. Co-chairs should encourage presentations that will lead to a summary of ongoing efforts underway for the three active WGs. Breakthroughs in these areas should get special attention. In your final summary please make an assessment of the probability of success for improved understanding, and highlight results for high Q, gradients > 50 MV/m and successful elimination of the Q-slope in Nb-Cu.



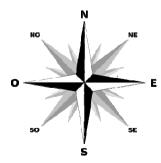
THURSDAY AFTERNOON





XFEL Village and IPNO visit BUS 122 130 1261 198 194 198A 198B 198C 148C 198D 194B 192 50 m

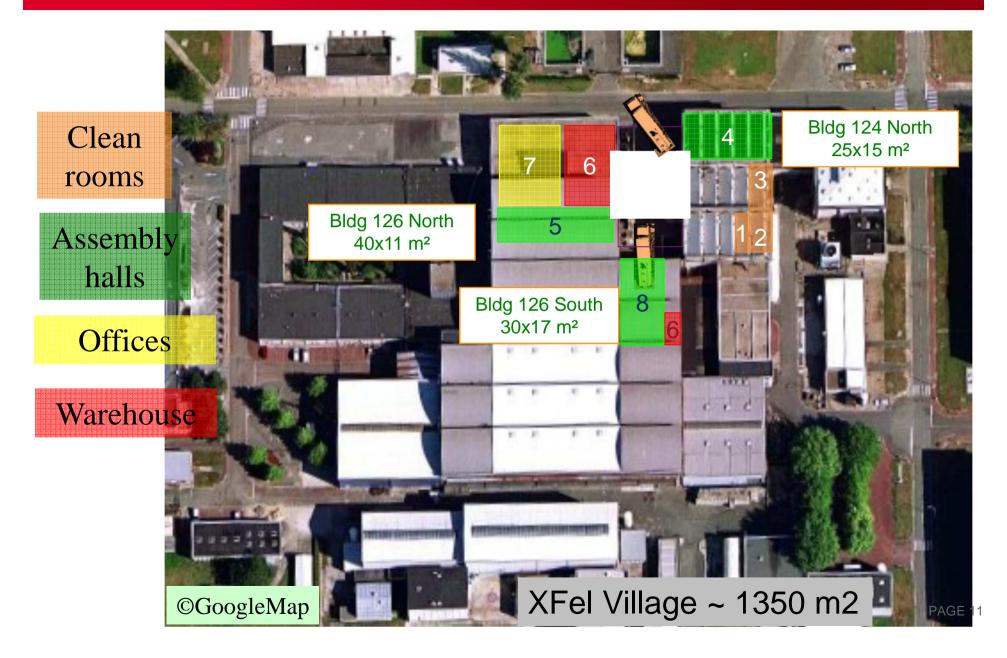






XFEL VILLAGE







XFEL VILLAGE DETAILS



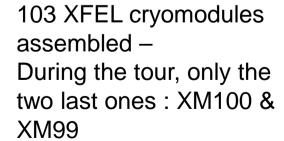




















DINNER ON THURSDAY, JULY 7TH, 2016 AT 20:45

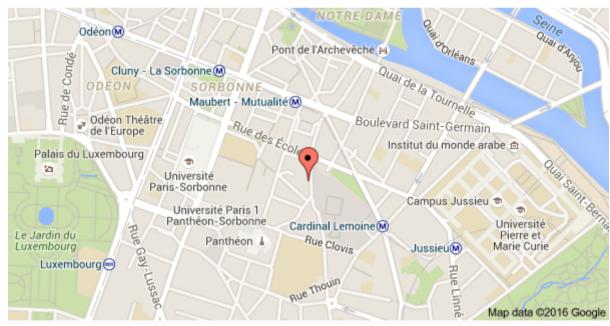




Dinner will take place at
« Au Bistrot de la Montagne » restaurant

38 & 40 rue de la Montagne Sainte-Geneviève, 75005 Paris

Nearest RER B station: Luxembourg (11 minutes walking)
Nearest Metro station: Maubert Mutualité (3 minutes walking)





FRIDAY MORNING



09:00	Beam operatiotn status in CADS cryomodule at IMP/IHEP - S. Peng (IHEP)		
	Room 112	09:00 - 09:30	
	Mass-production progress of FRIB low-beta cavities at MSU - K. Saito (MSU)		
	Room 112	09:30 - 10:00	
10:00	Summary talk WG 1		
	Room 112	10:00 - 10:20	
	Summary talk WG 2		
	Room 112	10:20 - 10:40	
	Coffee break		
		10:40 - 11:00	
11:00	Summary talk WG 3		
	Room 112	11:00 - 11:20	
	Summary talk WG 4		
	Room 112	11:20 - 11:40	
	Technical Board report		
	Room 112	11:40 - 11:50	
	Collaboration Board report		
12:00	Room 112	11:50 - 12:05	
	Closing		
	Room 112	12:05 - 12:20	

HAVE A NICE AND FRUITFULL TTC MEETING