



中國科學院高能物理研究所
Institute of High Energy Physics
Chinese Academy of Sciences

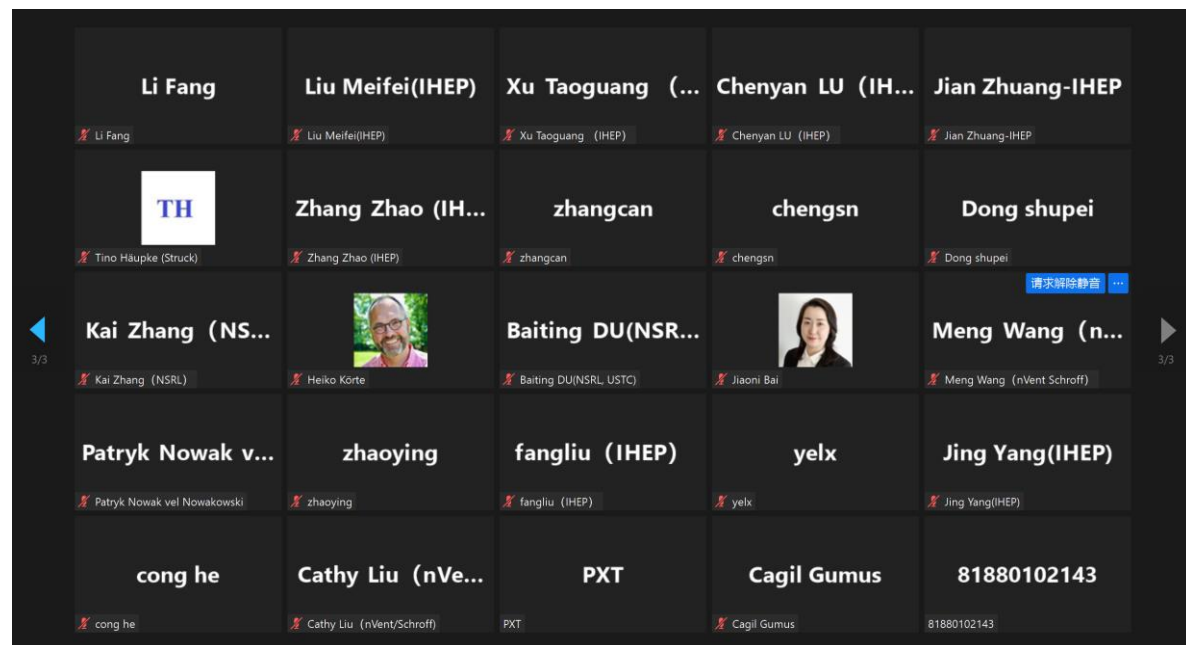
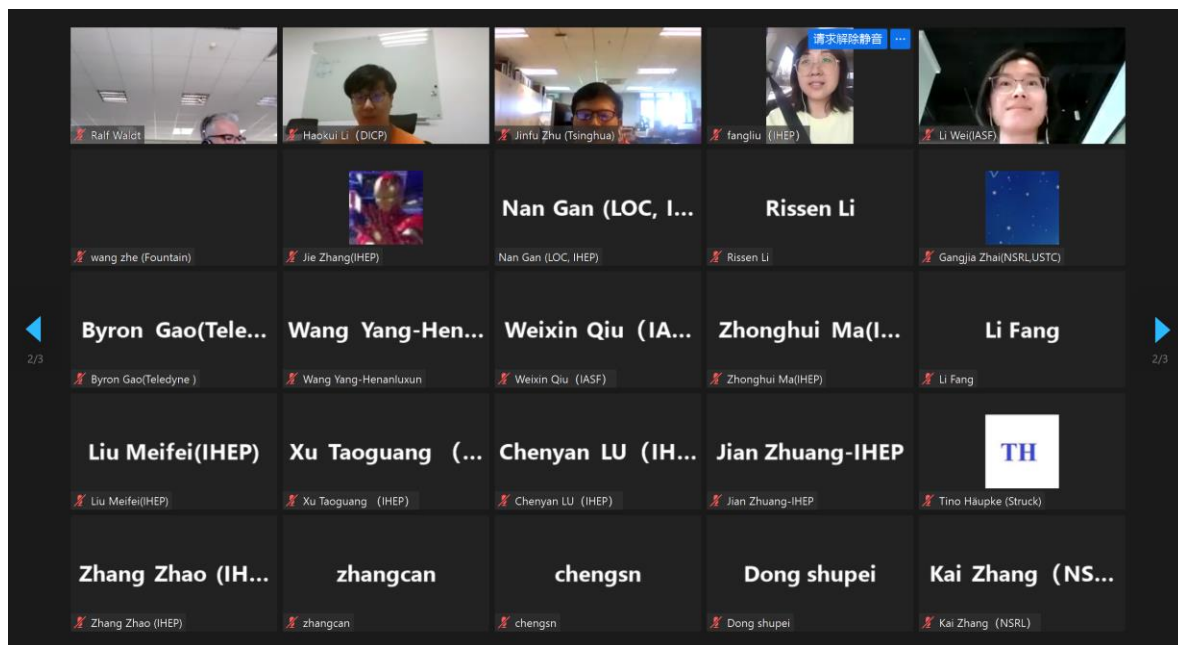
The 2nd MTCA/ATCA Workshop for Research and Industry

Summary

MA Xinpeng

2021-08-25

Thank you very much every participant



Attendee Statistics:

	2021	2019
Participants	114	105
IHEP(CSNS, Acc., Phy.)	32	24
Chinese except IHEP	54	62
world except China	28	19
Research	79	68
Industry	35	37
Affiliation	33	32
Research	19	14
Industry	14	18
countries	7	8

Research background:

- Accelerator/XFEL/SR/NS,
- Photon science,
- Plasma Physics,
- Lasers,
- ...

Topics Statistics :

27 talks ;

Topics more focusing and developing:

- Photon Science,
- detectors DAQ,
- Fusion,
- LLRF,
- MPS,
- BI,
- Timing,
- FemtoSync.

Many thanks:
All the speakers,

Tue. Aug. 24 (UTC+8)

Start Time	End time	Duration	Topics	Presenter	Chair
10:00	13:00	3:00	Zoom test and preparation		
13:00	14:00	1:00	Online check-in		
14:00	14:10	0:10	Opening Remark	Jingyi Li (IHEP)	
14:10	14:55	0:45	MTCA / ATCA Technology Brief	Junfeng Mao (nVent-China)	
14:55	15:25	0:30	The MicroTCA.4 Standard: Development of an Eco-System for Advanced Applications	Kay Rehlich (DESY)	
15:25	15:45	0:20	Summary MicroTCA Workshop 2020 @ DESY	Holger Schlarb (DESY)	
15:45	16:00	0:15	Time break(take photo)		
16:00	16:20	0:20	Research on Electronic System of Digital Gamma Spectrometer Based on MicroTCA Platform	Hongrui Cao (IPP)	Jingyi Li (IHEP)
16:20	16:40	0:20	IHEP-EDHP-AMC a MicroTCA.4 Based Multifunction Digital Processing AMC Module	Wei Long (IHEP/CSNS)	
16:40	17:00	0:20	The X3Timer - A MTCA.4 based timing hardware for PETRA IV	Hendrik Lippe (DESY)	
17:00	17:20	0:20	Femtosecond Synchronization system for Dalian Coherent Light Source	Zhichao Chen (DICP)	
17:20	17:40	0:20	Prototype of the HALF timing system based on MRF mTCA.4 hardware	Xiaokang Sun (USTC)	
17:40	19:00	1:20	Time break		
19:00	19:45	0:45	Management in MTCA and ATCA systems	Heiko Koerte(NAT)	
19:45	20:05	0:20	The MicroTCA fast control board for generic control and data acquisition applications	Jie Zhang (IHEP)	
20:05	20:25	0:20	MicroTCA for photon science experiments	Martin Tolkiehn (DESY)	Holger Schlarb (DESY)
20:25	20:40	0:15	Time break		
20:40	20:55	0:15	An implementation of module management controller for MicroTCA data processing system	Gong He (IHEP)	
20:55	21:15	0:20	Recent developments from MicroTCA Tech Lab	Jan Marjanovic (DESY)	
21:15	21:35	0:20	MicroTCA.4 MMC with Open source evaluation	Chenyan Lu (IHEP)	

Wed. Aug. 25 (UTC+8)

Start Time	End time	Duration	Topics	Presenter	Chair
10:00	13:00	3:00	Zoom test and preparation		
13:00	14:00	1:00	Online check-in		
14:00	14:45	0:45	How to realize your application on MicroTCA.4	Cagil Gumus (DESY)	
14:45	15:05	0:20	MicroTCA.4 in LLRF of BEPCII and HEPS	Xinpeng Ma (IHEP)	
15:05	15:25	0:20	MicroTCA system engineering, developing and domestic production	Rui Li (YUANZHONG)	
15:25	15:45	0:20	Control software development for 324MHz superconducting spoke cavity coupler RF conditioning test platform	Song Li (IHEP/CSNS)	
15:45	16:00	0:15	Time break		
16:00	16:20	0:20	Development of CSNS linac llrf based on MicroTCA	Zhexin Xia (IHEP/CSNS)	Zheqiao Geng (PSI)
16:20	16:40	0:20	Experience with LLRF Systems using MicroTCA.4 at DESY	Julien Branlard (DESY)	
16:40	17:00	0:20	Two low-level control systems for L-band (1300MHz) and S-band (2856MHz) based on MTCA	Haoran Fu (Gantel)	
17:00	17:20	0:20	Current Status and Future Plans of the MicroTCA.4 compliant LO and CLK Generation Module	Uros Mavric (DESY)	
17:20	17:40	0:20	Introductions on the products of Struck and mTCA.4 based solutions	Rong Liu (DAQ-Struck)	
17:40	19:00	1:20	Time break		
19:00	19:20	0:20	Status of the HEPS digital BPM Electronics development	Jing Yang (IHEP)	
19:20	19:40	0:20	Machine Protection System of XFEL and FLASH	Juergen Jaeger (DESY)	Gongfa Liu (USTC)
19:40	20:00	0:20	PICMG MTCA Next Generation	Heiko Koerte(NAT)	
20:00	20:20	0:20	Constant Temperature Control for the High-Precision Electronics of big science	Ralf Waldt(nVent)	
20:20	20:40	0:20	Closing	Xinpeng Ma (IHEP)	

- Live virtual Conf acceptable way, as a on-line conf;
 - May need more free discussion time.
 - Hope you get your answer or inspire you.
-
- paradox between supplier and users when it started.
 - users: no suppliers, no solutions, expensive, no local support
 - supplier: no users, no market, we need quantity to lower price, we need money to develop new products
 - must one side shall step forward to break the lock.
-
- For decision-maker: strategy is ultra-important -> long way to go; but once decided, much easier;
 - For developer: many boards been made, firmware / software might be next key point focused on;

Many thanks to ...

Programme Committee:

Name: **Affiliation:**

Jingyi Li (Chair)	IHEP
Holger Schlarb	DESY
Gongfa Liu	USTC
Xiao Li	IHEP/CSNS
Xinpeng Ma	IHEP

Local Organizing Committee:

Name: **Affiliation:**

Xinpeng Ma	IHEP
Lin Bian	IHEP
Nan Gan	IHEP
Chenyan Lu	IHEP

Many thanks to Prof. Kay Rehlich,
Dr. Zheqiao Geng for suggestions.

Next workshop:

Depends on the community develop and requirement status, but keep in the spring-summer time.

Each year might be too frequently? Every two years might be good in China?

Thank you very much!

Please stay safe!