

# Close-out: 12<sup>th</sup> MicroTCA Workshop for Industry & Research (2023)

Holger Schlarb, Group leader MSK/DESY  
DESY, 07.12.2023

# 12<sup>th</sup> MicroTCA Workshop for Industry & Research

## Statistics

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Participants	207	190	189	200	198	188	183	159	177	188	191	180
Institutes	30	26	29	37	34	22	27	25	31	30	30	25
Companies	27	23	21	23	25	31	24	28	36	39	39	29
Exhibitors	14	13	9	9	12	14	13	14	14	16	16	12
Talks	42	44	40	44	43	43	38	38	45	44	53	42

First of all: many thanks to the speakers!

- Well prepared & clear talks
- Very informative
- Thanks for *mostly* staying in schedule

Newcomers ~ 25 %  
High recurrent ~ 35 %

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- **Finally again face-to-face (~180) + virtual participation (~30)**
  - Indispensable for building network:
    - Get known to each others... who is who
    - Build up trust !!!
    - Understand background, capabilities, focus and goals ...
    - Exchange solutions and idea's
    - Innovative space ...
  - Hybrid we keep also in the future...
  - Format looks still adequate (~ 1-2 keynotes / short compact talks but many ~40)
    - Try to cover ecosystem diversity / variety of developments
    - Poster session for new comers & early bird developments
  - Tutorial tracks → Still very important & well received ( $\Sigma \sim 80$ )
  - Specialized pre-sessions → Timing & MPS? & Open FW & ACAP tool chain...???



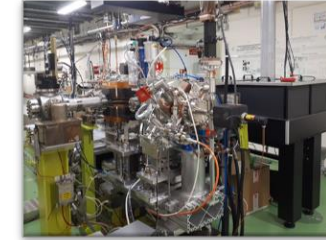
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- Few take away (personal view)
  - Progress on many projects, **but also** many new projects came up
  - New community → new challenges
    - Seem to manageable...
    - Predict know-how spread across disciples
  - **Significantly more “expert”**
    - higher integration levels
    - more complex “Use Cases”
  - **More and more talks related to**
    - SW/FW/Tools ... frameworks!
    - System integration & larger scale deployments
  - **Still painful but not critical anymore:**
    - Availability of electronic components
    - EoL & obsolescence managements
  - **Update on: Next Gen. MicroTCA**

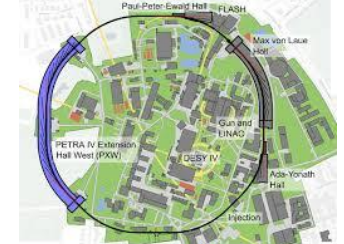
J-PARC



CERN - AWAKE



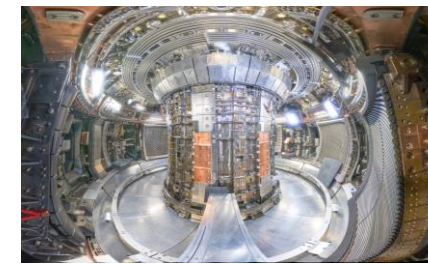
PETRA IV



FERMILAB CAMAC



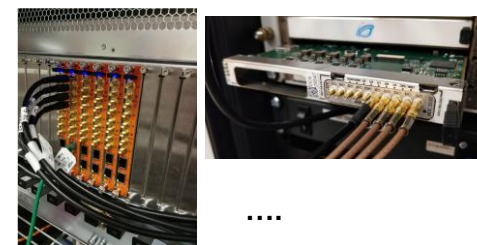
Plasma Fusion



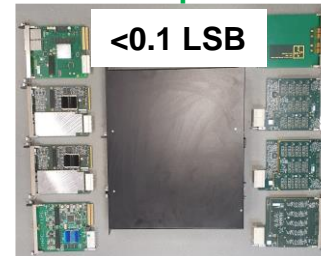
ESS and many more



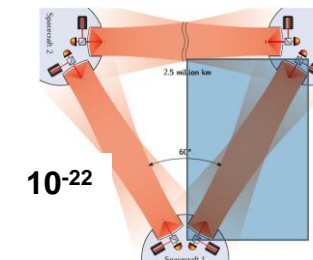
Storage rings → BPMs/FOFB



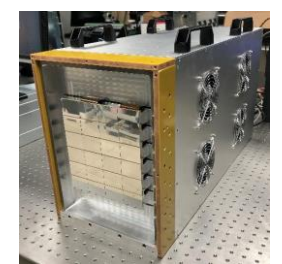
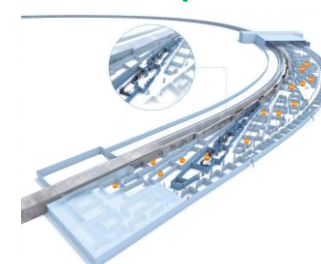
Telescopes



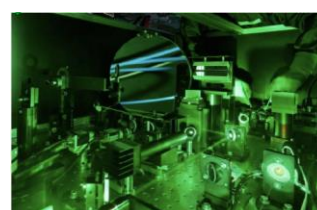
Gravitational Wave



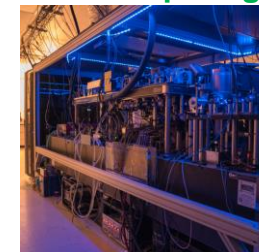
Photon experiment & beamline & detector



Scientific Lasers



Qu.-Computing



# Close out 12<sup>th</sup> MicroTCA Workshop

- **Outreach and dissemination**

- **Support for regional / country focused MicroTCA WS**

- 17-19. of September Hefei hosted by USTC in China
- ... workshop in US, may prior to LINAC2024 → ORNL/FERMILAB

- **Reach out for media & journals reporting from our efforts (visibility)**

- **Research / Areas with growth potentials:**

- Photon science experiments & beamlines
- Related to Plasma Fusion Reactors (of all kinds)
- Astrophysics Observatories & Gravitational wave
- Quantum Computing
- Universities ....

- **Talent management & Education & Next generation**

- Many new faces, young engineers & scientist jointed ! THIS IS ESSENTIAL!



Lodz University  
of Technology



POLITÉCNICA



UPPSALA  
UNIVERSITET

# Thanks to Industry Exhibitors!!!



# Thanks to

## Advisory committee:

Kay Rehlich (Chair)	DESY
Holger Schlarb (Chair)	DESY
<b>Tobias Hoffmann</b>	GSI
<b>Thomas Holzapfel</b>	powerBridge
<b>Christian Ganninger</b>	nVent - Schroff GmbH
<b>Augusto Fraga Giachero</b>	LNLS
<b>Heiko Koerte</b>	N.A.T.
<b>Timo Korhonen</b>	ESS
<b>Rong Liu</b>	Beijing DAQ Technology Co. Ltd
<b>Xinpeng Ma</b>	IHEP
<b>Dariusz Makowski</b>	Lodz Uni. of Technology
<b>Alex Malcolm</b>	VadaTech Inc.
<b>Jan Marjanovic</b>	Atom Computing
<b>Fumihiko Tamura</b>	J-PARC Center, Japan
<b>Axel Winter</b>	MPI Plasmaphysik

Valuable input for shaping the workshop!!!

## Local organization:

Hanna Kunze	DESY
Gohar Ayvazyan	DESY



Hanna Kunze



+ Romain Seibert & Johannes Voss & Bart Szczepanski



# Close out 12<sup>th</sup> MicroTCA Workshop



Next workshop date:

10-12.12.2024  
(Tu-Th)



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**Thank you for joining  
&  
Save return Journey**