

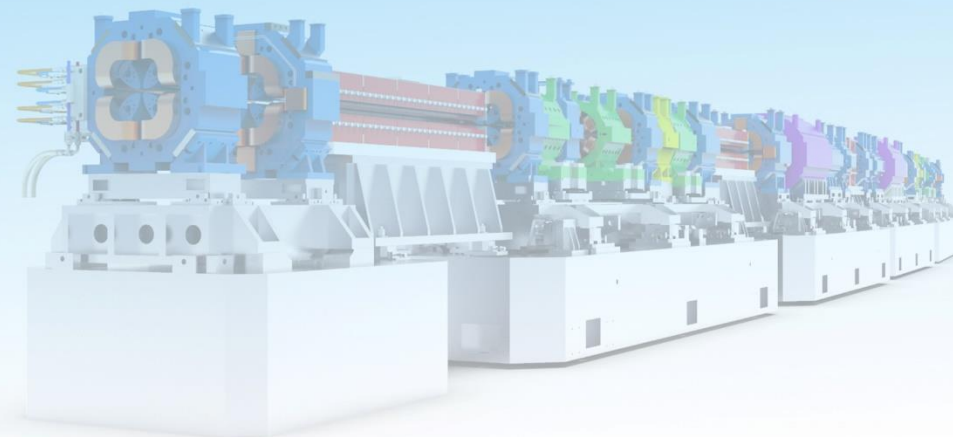


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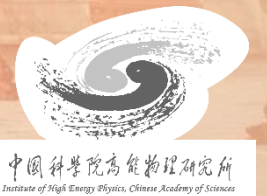
The 12th International Conference on Mechanical Engineering Design of Synchrotron Radiation Equipment and Instrumentation

November 06 - 10, 2023 Beijing · China



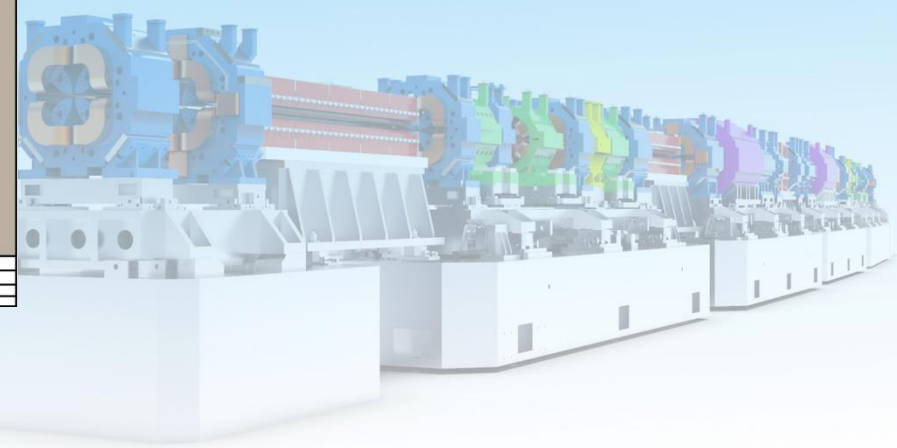
Closing Remarks

Ping He
IHEP

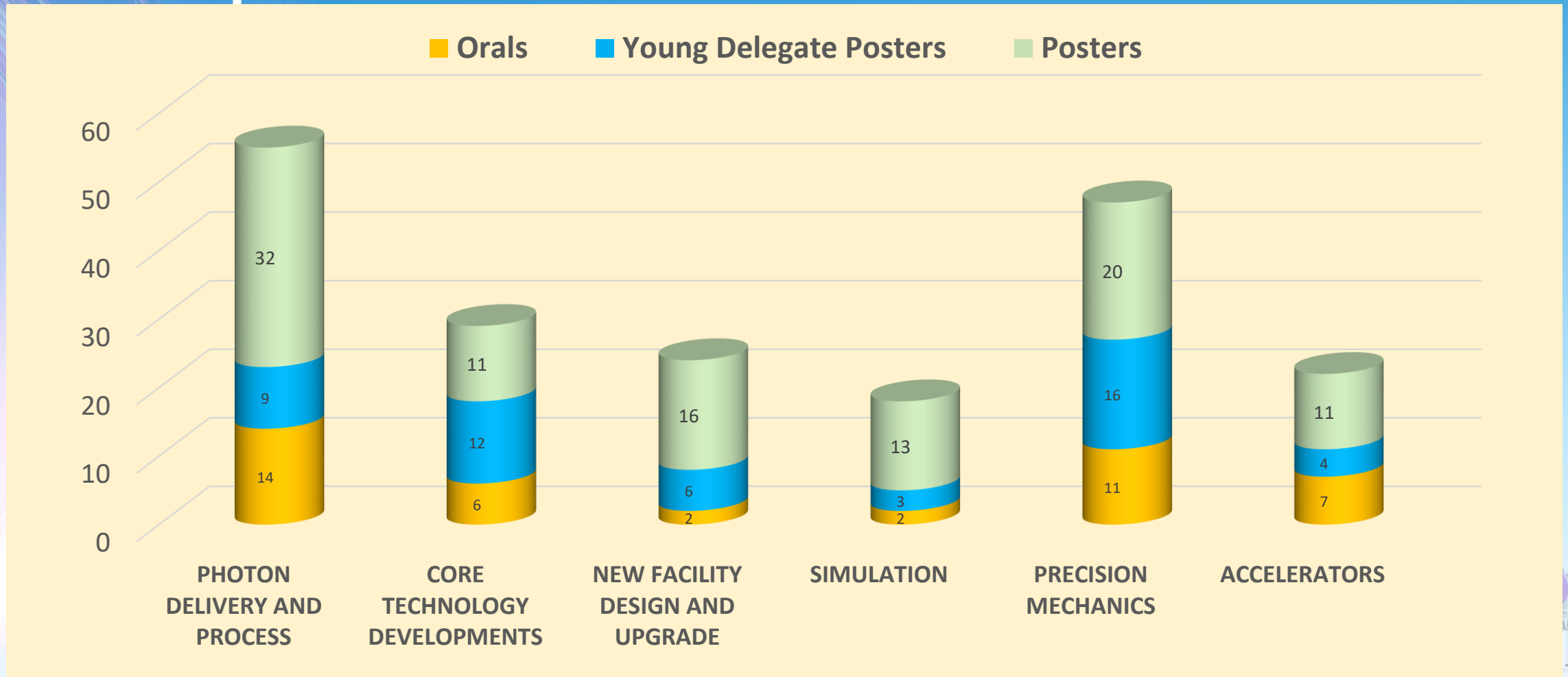


MEDSI 2023 PROGRAM					V2023.11.07
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
NOV 6th	NOV 7th	NOV 8th	NOV 9th	NOV 10th	
8:00	Registration (8:00-17:30)				
	TU Morning Session Chair: Yuhui Dong (IHEP)	WE Morning Session Chair: Keihan Tavakoli (SOLEIL)	TH Morning Session Chair: Carles Colldelram (ALBA)	FR Morning Session Chair: Sarah Macdonell (DIAMOND)	
9:00-9:10	Conference Welcome - Yuhui Dong (Conference Chair)	Keynote Talk 2: The Progress of HEPS Project -Ping He (IHEP) (9:00-10:00)	Keynote Talk 3: Nanopositioning at Sirius/LNL5 Beamlines - A Review and Future Opportunities -Renan Ramalho Geraides (LNL5) (9:00-10:00)	Keynote Talk 4: An Introduction to Accelerator Physics -Chuang Zhang (IHEP) (9:00-10:00)	
9:10-10:10	Main Classifications MC1: Photon Delivery and Process MC2: Core Technology Developments MC3: New Facility Design and Upgrade MC4: Simulation MC5: Precision Mechanics MC6: Accelerator	CEPC Vacuum System Development and Status -Yongsheng Ma (IHEP)	Group Photo (10:00-10:10)	Exhibitor Talk & Coffee Break (10:00-10:30)	Exhibitor Talk & Coffee Break (10:00-10:30)
10:10-10:30	Exhibitor Talk & Coffee Break (10:10-10:30)	Coffee Break (10:10-10:30)	Exhibitor Talk & Coffee Break (10:00-10:30)	Exhibitor Talk & Coffee Break (10:00-10:30)	
10:30-12:10	TUOAM: Photon Delivery and Process A (10:30-12:10)	WEOAM: Core Technology Developments (10:30-12:10)	THOAM: Precision Mechanics A (10:30-12:10)	FROAM: Accelerator (10:30-12:10)	
	Upgrade of European XFEL Beam Shutters for Full Beam Operation -Martin Dommach (EXFEL)	High-Throughput Data Orchestration and Streaming System for High Energy Photon Source -Chenglong Zhang (IHEP)	Development and Qualification of Micrometric Resolution Motorized Actuators for the High Luminosity Large Hadron Collider Full Remote Alignment System -Michel Noir (CERN)	Design and Testing of HEPS Storage Ring Magnet Support System -Zhao Wang (IHEP)	
	Update of the BM18 ESRF Beamline Development: Presentation of Selected Equipment and Their Commissioning -Pierre Van Vaerenbergh (ESRF)	A Vacuum Aspirated Cryo Cooling System (VACCS) -Bodvar Olafsson (DLS)	SmarGon MCS2: An Enhanced Multi-axis Goniometer With a New Control System -Wayne Glettiq (PSI)	Vacuum System of SPS-II: Challenges of Conventional Technology in Thailand New Generation Synchrotron Light Source	
	Progress of Beamlines Design and Key Technologies of Hefei Advanced Light Facility -Xuewei Du (USTC)	Magnetic Levitation on a Budget -Jonathan Kelly (DLS)	Magnetically Levitated 6 DoF Controlled Sample Manipulator for Tomography -Theo Ruil (MIL Partners)	New Kicker Chambers for the ESRF-EBS Storage Ring -Thierry Brochard, Laurent Eybert (ESRF)	
	New Developments and Status of XAIRA, the New Microfocus MX Beamline at the ALBA Synchrotron -Nahikari Gonzalez (ALBA-CELLS)	Development of Low-Frequency Superconducting Cavities for High Energy Photon Source -Xinying Zhang (IHEP)	Overall Progress on Development of X-ray Mirror Mechanical Systems at High Energy Photon Source (HEPS) -Shanzhi Tang, Zhongrui Ren (IHEP)	Stability and Vibration Control for High Energy Photon Source in China -Fang Yan (IHEP)	
	Thermal-Deformation Based X-Ray Active Mirror Development: Modulation and Metrology -Fuguai Yang (IHEP)	Zero-Length Conflat Flange Nonevaporable Getter (NEG) Pump Manufactured by Oxygen-Free Pd/Ti Deposition -Kazuhiko Mase (KEK)	Modeling the Disturbances and the Dynamics of the New Micro CT Station for the Mogno Beamline at Sirius/LNL5 -Gabriel Shen Baldon, Guilherme Sobral de Albuquerque	Closing Remarks & Best Poster Prize Awarding Ceremony -Ping He (SPC Chair)	
12:10-13:30	Lunch (12:10-13:30)	Lunch (12:10-13:30)	Lunch (12:10-13:30)	Lunch (12:10-13:30)	
	TU Afternoon Session Chair: Brad Mountford (ANSTO)	WE Afternoon Session Chair: Martin Dommach (EXFEL)	TH Afternoon Session Chair: Ping He (IHEP)		
	TUOBM: Photon Delivery and Process B (13:30-15:50)	WEOBM: MC2 & MC3 & MC4 & MC5 (13:30-15:50)	THOBM: Precision Mechanics B (13:30-15:50)		
	ForMAX: A Beamline for Multi-Scale and Multi-Modal Structural Characterisation of Hierarchical Materials -Joaquin Benchohra Gonzalez Fernandez (MAX IV)	Challenges and Solutions for the Mechanical Design of SOLEIL-II -Keihan Tavakoli (SOLEIL)	Structural Dynamic Testing and Design Evaluation of the Formax Detector Gantry -Gabor Felcsuti (MAX IV)		
	SAPOTI - The New Cryogenic Nanoprobe for the CARNAUBA Beamline at Sirius/LNL5 -Renan Ramalho Geraides (LNL5)	Development of the Bent Focusing Mirror in HEPS From Design to Test -Minwei Chen (IHEP)	First Results of a New Hydrostatic Leveling System on Test Procedures at Sirius -William Heinrich (SETUP)		
	SAXS Instrumentation at SAXSMAT beamline for Materials Research at PETRA III -Saskia Pfeffer (DESY)	The Design and Progress of the Network and Computing System for HEPS -Hao Hu (IHEP)	Progress and Core Technologies Development of Monochromators for HEPS -Hao Liang (IHEP)		
	Research and Application of Two-Dimensional Energy Spectrum Imaging of Synchrotron Radiation -Zhongliang Li (SSRF)	Advancing Simulation Capabilities at European XFEL: A Multidisciplinary Approach -Fan Yang (EXFEL)	Development of a Mirror Chamber System for SHINE Project -Fang Liu (ShanghaiTech University)		
	The Progress in Design, Preparation and Measurement of MLL for HEPS -Shuaipeng Yue (IHEP)	Thermal Calculation and Testing of SLS 2.0 Crotch Absorbers -Xinyu Wang (PSI)		Facility Tour (HEPS) 13:30-19:00	
	MINERVA, a New X-ray Facility for the Characterization of the ATHENA Mirror Modules at the ALBA Synchrotron -Antonio Carballedo (ALBA-CELLS)	Extension of the IXS High Resolution Monochromator for the RIXS experiment at the Petra III Beamline P01 -Frank-Uwe Dill (DESY)	THPPP: Poster session (MC4+MC5+MC6) 56pcs (14:50-16:10)		
	Newly Developed Wavefront Metrology Technique and Applying in Crystal Processing -Fang Liu (IHEP)	Design, Modeling and Analysis of a Novel Piezoactuated XY Nanopositioner Supporting Beamline Optical Scanning -Lingfei Wang (IHEP)			
15:50-16:00	Exhibitor Talk & Coffee Break (15:50-16:10)	Exhibitor Talk & Coffee Break (15:50-16:10)			
16:00-16:30	TUPYP: Young Delegate Poster Session (55pcs) (16:10-17:30)	WEPPP: Poster session (MC1+MC2+MC3) 60pcs (16:10-17:30)	Outing (16:10-18:30)		
16:30-17:00					
17:00-17:30					
17:30-18:00					
18:00-18:30					
18:30-21:00		IOC Meeting (18:30-20:30)	Conference Dinner (18:30-21:00)		

Presentation Type	Count
Invited (Keynote) Oral Talks	5
Contributed Oral Talks	37
Young Delegate Posters	50
Posters	103
Total Contributions	195



Contributions Count by Main Classifications





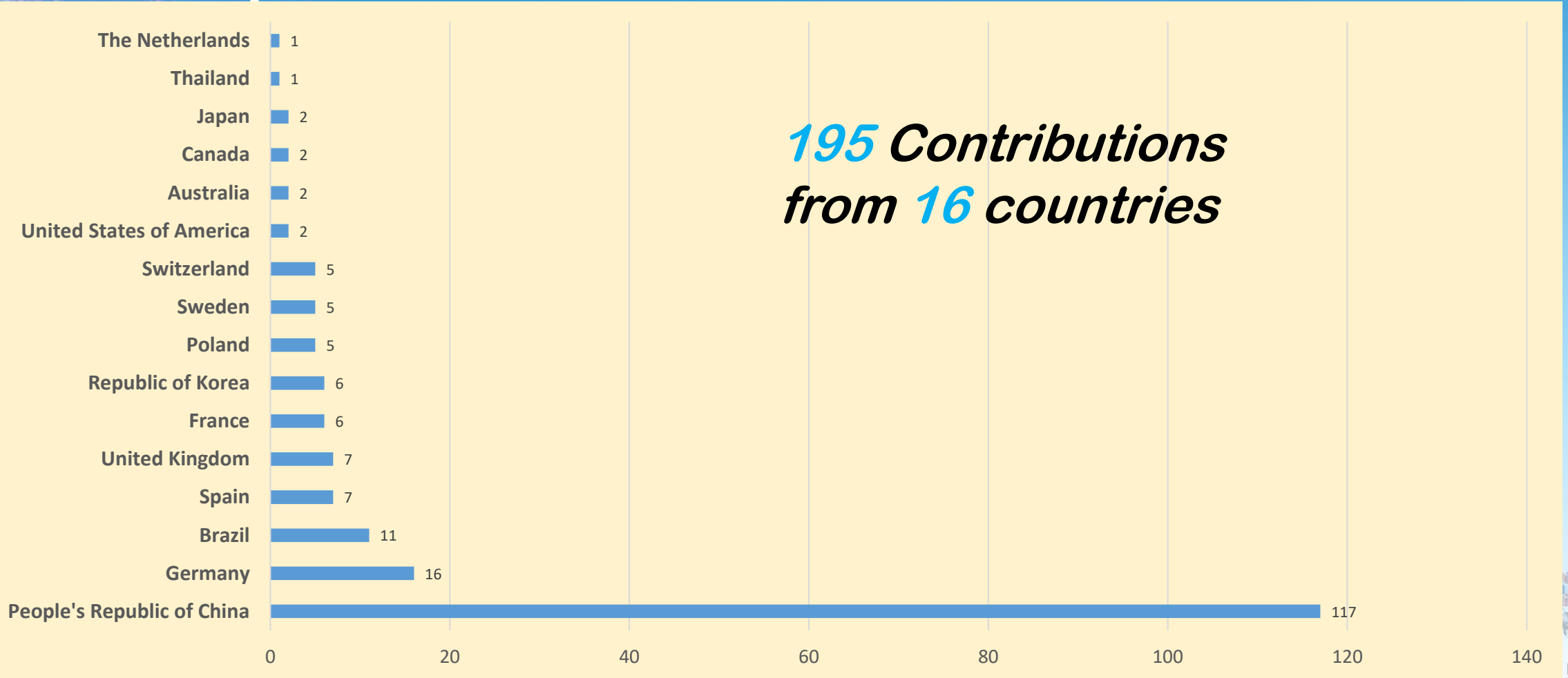
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Contributions Count by Countries



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TUKAM01	TUPYP005	TUPYP026	TUPYP045	WEOBM02	WEPPP016	WEPPP034	WEPPP053	THOBM04	THPPP021	THPPP040	FROAM04
TUKAM02	TUPYP008	TUPYP027	TUPYP046	WEOBM03	WEPPP017	WEPPP035	WEPPP054	THPPP002	THPPP022	THPPP041	
TUOAM01	TUPYP010	TUPYP028	TUPYP047	WEOBM04	WEPPP018	WEPPP037	WEPPP055	THPPP003	THPPP023	THPPP043	
TUOAM02	TUPYP011	TUPYP029	TUPYP048	WEOBM05	WEPPP019	WEPPP038	WEPPP056	THPPP005	THPPP024	THPPP046	
TUOAM03	TUPYP012	TUPYP030	TUPYP050	WEOBM06	WEPPP020	WEPPP039	WEPPP057	THPPP007	THPPP025	THPPP047	
TUOAM04	TUPYP013	TUPYP032	TUPYP051	WEOBM07	WEPPP021	WEPPP040	WEPPP058	THPPP008	THPPP026	THPPP049	
TUOAM05	TUPYP015	TUPYP034	TUPYP052	WEPPP002	WEPPP022	WEPPP041	WEPPP059	THPPP009	THPPP027	THPPP050	
TUOBM01	TUPYP016	TUPYP035	TUPYP053	WEPPP004	WEPPP023	WEPPP042	WEPPP060	THPPP010	THPPP028	THPPP051	
TUOBM02	TUPYP017	TUPYP036	TUPYP054	WEPPP006	WEPPP024	WEPPP044	THKAM01	THPPP011	THPPP029	THPPP052	
TUOBM03	TUPYP018	TUPYP037	TUPYP055	WEPPP008	WEPPP025	WEPPP045	THOAM01	THPPP012	THPPP032	THPPP053	
TUOBM04	TUPYP019	TUPYP038	WEKAM01	WEPPP009	WEPPP026	WEPPP046	THOAM02	THPPP013	THPPP033	THPPP054	
TUOBM05	TUPYP020	TUPYP039	WEOAM01	WEPPP010	WEPPP027	WEPPP047	THOAM03	THPPP014	THPPP034	THPPP055	
TUOBM06	TUPYP021	TUPYP040	WEOAM02	WEPPP011	WEPPP028	WEPPP048	THOAM04	THPPP015	THPPP035	THPPP056	
TUOBM07	TUPYP022	TUPYP041	WEOAM03	WEPPP012	WEPPP029	WEPPP049	THOAM05	THPPP016	THPPP036	FRKAM01	
TUPYP001	TUPYP023	TUPYP042	WEOAM04	WEPPP013	WEPPP030	WEPPP050	THOBM01	THPPP017	THPPP037	FROAM01	
TUPYP002	TUPYP024	TUPYP043	WEOAM05	WEPPP014	WEPPP032	WEPPP051	THOBM02	THPPP018	THPPP038	FROAM02	
TUPYP004	TUPYP025	TUPYP044	WEOBM01	WEPPP015	WEPPP033	WEPPP052	THOBM03	THPPP020	THPPP039	FROAM03	

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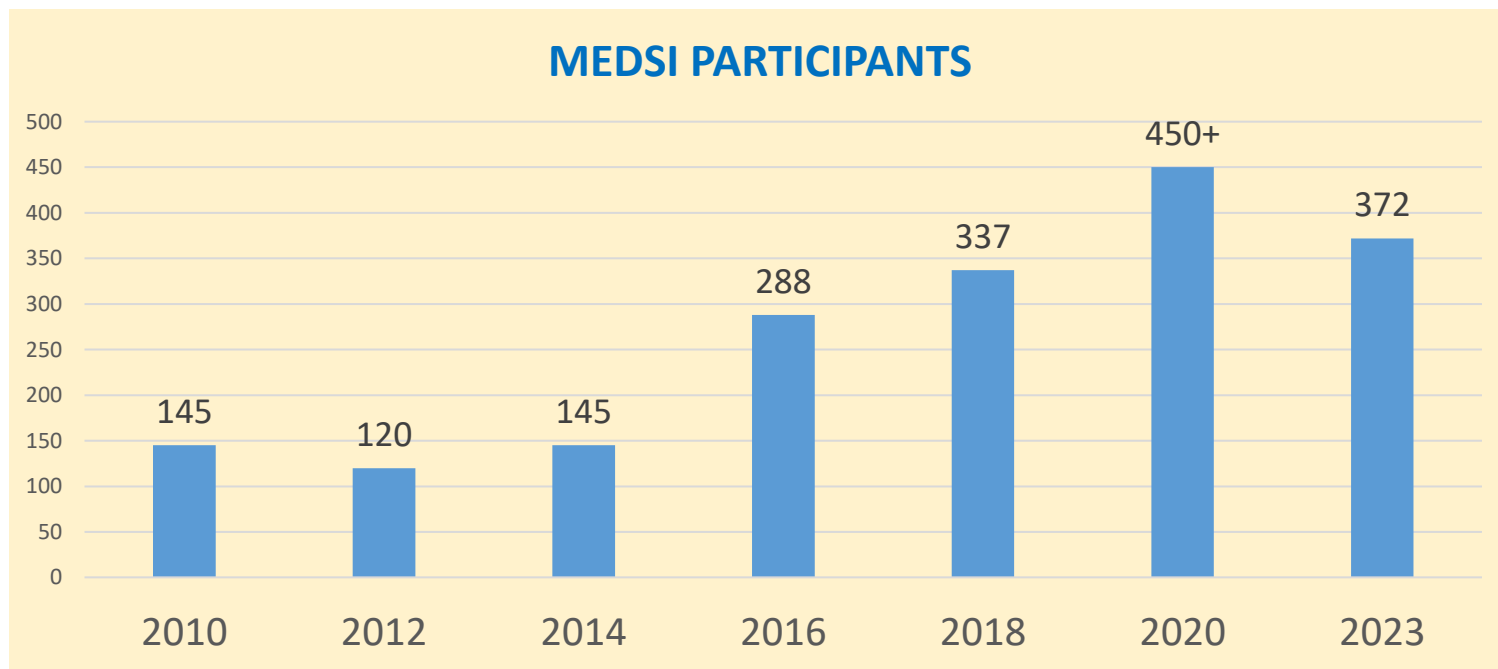
A Pre-Press Proceedings will be published after the conference at:

<https://medsi2023.vrws.de>

Which we will inform later on the conference website.

103 Foreign participants
269 Domestic participants
44 Sponsors and Exhibitors

MEDSI 2023
*Total: **372***
*from **21** countries*



MEDSI PARTICIPANTS		
2010	145	
2012	120	
2014	145	
2016	288	
2018	337	
2020	450+	virtual
2023	372	





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Group Photo

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- **Firstly, we must thank all the presenters for their effort in preparing talks, posters, and papers. Sharing of information is the main reason for MEDSI, and this year again brought out a number of presentations of interest.**
- Secondly, a thank-you to the Sponsors and Exhibitors whose contributions helped make the entire event possible.
- And finally, a thank-you goes to those that worked behind the scenes: the Scientific Program Committee, the Editors, and the Local Organizers. All of the people involved worked hard to make sure the conference ran smoothly.





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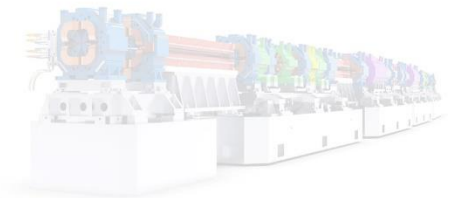
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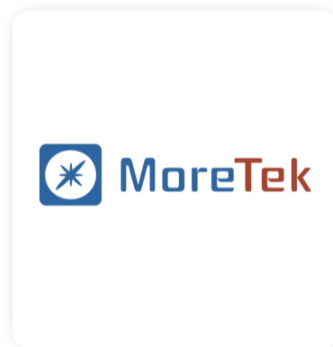


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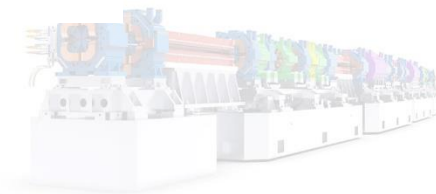
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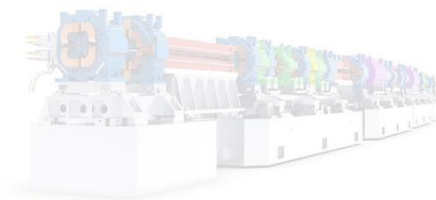


Thanks to everybody

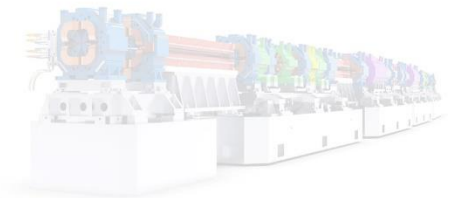
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Radiation Detection
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Thanks to **JACOW** and the Editors

Zhichu Chen (SARI)

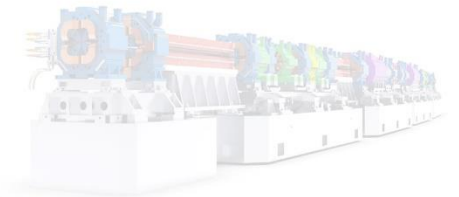
Christine Petit-Jean-Genaz (CERN)

Volker RW Schaa (GSI)

Akihiro Shirakawa (KEK)

Thakonwat Chanwattana (SLRI)

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Thanks to the SPC & LOC Members

Scientific Program Committee

Chair: Ping He

Tiandou Hu

Weifan Sheng

Huamin Qu

Local Organizing Committee

Conference Chair: Yuhui Dong

Scientific Secretary: Lin Bian

Ye Tao

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Pei Zhang

Lijun Guo

Mengyao Yuan

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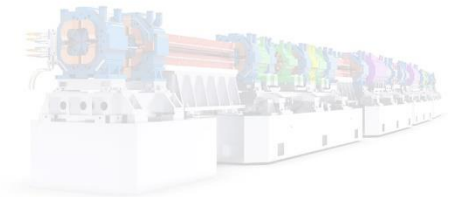
Shang lu

Yanming Wang

Mengyao Qi

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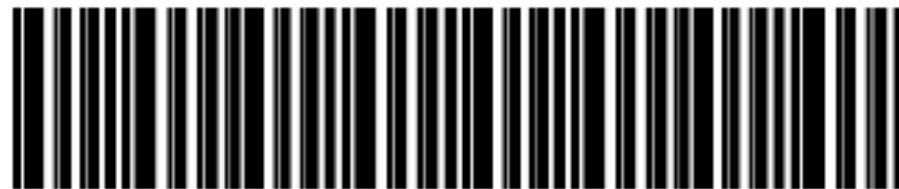




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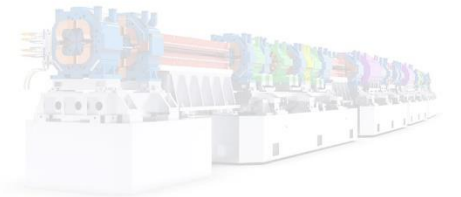
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2023



MEDSI2025 will be held by

MAX-IV Lab

Lund, Sweden



MEDSI 2025



Welcome to Sweden!

MEDSI 2025

Lund

September 2025

MEDSI 2025

Welcome to Lund!



Walking distance
from the train Station



MEDSI 2025

Local Organizing Committee



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Chairman
Mechanical Design Team Leader
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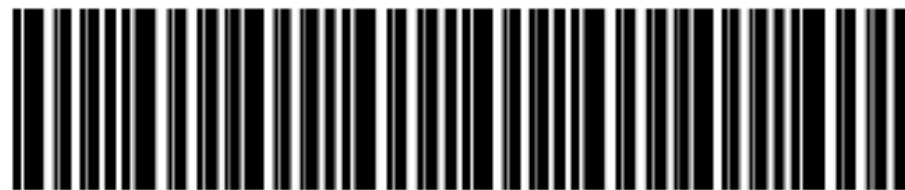
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T H A N K S

