

MPGD 2024

The 8th International Conference on Micro-Pattern Gaseous Detectors



Oct. 14th-Oct. 18th, 2024

University of Science and Technology of China, Hefei, China

Website: https://mpgd2024.aconf.org

Email: mpgd2024@ustc.edu.cn







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About the Conference

The 8th International Conference on Micro Pattern Gaseous Detectors, MPGD 2024, is held at the University of Science and Technology of China (USTC) in Hefei, China, from October 14 to October 18, 2024 (13th Oct. for registration).

The MPGD conference series started in 2009 and take place every two years. Previous MPGD conferences were organized all around the world in Kolympari, Crete, Greece (2009), Kobe, Japan (2011), Zaragoza, Spain (2013), Trieste, Italy (2015), Philadelphia, USA (2017), La Rochelle, France (2019), and Weizman, Israel (2022). This edition of the MPGD conference, MPGD 2024, is hosted by the University of Science and Technology of China.

The conference follows the tradition of the MPGD conference series to bring together the MPGD communities from around the world to review the status and progress of worldwide MPGD research and development, discuss new results and developments in the MPGD-related fields and look toward future prospects for MPGD development and application.

Topics covered in the conference include

- MPGD technologies
- Detector physics
- Detector performance
- Simulation and software
- Applications
- Electronics
- Production techniques
- Future perspectives

Conference Committees

MPGD International Organizing Committee

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Zhiyong Zhang USTC

Yangheng Zheng University of Chinese Academy of Sciences

Yi Zhou USTC

Chengguang Zhu Shandong University

Kejun Zhu Institute of High Energy Physics, Chinese Academy of

Sciences

Attendees Guide

• Conference Venue

Conference hall at the 3rd floor of the annex building of Physical Science and Research Building 96 Jinzhai Road, Hefei, Anhui Province, China



(Map of East campus, USTC)

The most convenient way to reach the conference venue from outside the campus is through the Southeast Gate.

Registration

Oct 14th Open space outside 3rd floor Conference Hall, Physical Science and Research Building, USTC

Dining Arrangements

Date		Time	Place
Oct 14 th	Lunch	12:30-14:00	F2 Hall, Yueya Jiangnan Spring
OCI 14	Reception	19:00-21:00	F1 Cypress Room, Crowne Plaza
Oct 15 th	Lunch	12:30-14:00	F2 Hall, Yueya Jiangnan Spring
Oct 13	Dinner	19:00-21:00	F1 Brew House, Crowne Plaza
Oct 16 th	Lunch	12:30-14:00	F2 Hall, Yueya Jiangnan Spring
Oct 10"	Banquet	19:00-21:00	F1 Cypress Room, Crowne Plaza
Oct 17 th	Lunch	12:30-14:00	F2 Hall, Yueya Jiangnan Spring
Oct 17"	Dinner	19:00-21:00	F2 Fiesta Café, Crowne Plaza
Oct 18 th	Lunch	12:30-14:00	F2 Hall, Yueya Jiangnan Spring

Social Events

Welcome reception and Banquet:

The MPGD2024 welcome reception will be held in the BEST WESTERN Premier Hotel on the evening of 14th, 0ct., 2024.

The MPGD2024 conference banquet will be held in the Crowne Plaza Hefei on the evening of 16th, 0ct., 2024.

Tours:

There are two conference tours, and each participant can choose one of them in the registration stage. If you want to change your choice, please contact the LOC (mpgd2024@ustc.edu.cn).

1.Museum Visiting: Anhui Museum (安徽博物院)

The Anhui Museum now has a collection of almost 220,000 cultural relics including many distinctive categories. It is the only provincial comprehensive museum in Anhui Province that integrates nature, history, society and education.

Event plan: Departing from USTC to Anhui Museum at 2:00 PM, starting the tour at approximately 2:45 PM, and leaving for conference banquet at 5:10 PM.

MP 202



2.Laboratory Visiting:

Event plan: Visiting the State Key Laboratory of Particle Detection and Electronics and the National Synchrotron Radiation Laboratory from 2:30 PM to 5:00 PM, and leaving for conference banquet at 5:00 PM.

1) State Key Laboratory of Particle Detection and Electronics (核探测与核电子学国家重点实验室)

State Key Laboratory of Particle Detection and Electronics is the only state key lab in the particle detection and electronics area in China and a national leading center of excellence in developing and applying particle detection and electronics technologies. Its mission is to undertake research and development of key technologies for frontier nuclear and particle physics experiments, apply advanced particle detection and electronics technologies to develop new basic research capabilities, train and foster research workforce on particle detection and electronics.



2) National Synchrotron Radiation Laboratory (同步辐射实验室)

National Synchrotron Radiation Laboratory (NRSL) is the first national laboratory in China, which is located on the West Campus of the USTC, Hefei, Anhui Province. It owns the first dedicated synchrotron radiation facility in China, Hefei Light Source (HLS).



Weather

Oct 13 th	Oct 14 th	Oct 15 th	Oct 16 th	Oct 17 th	Oct 18 th
Cloudy	Cloudy	Overcast	Cloudy	Light rain	Light rain
16~24°C	17~26°C	17~26°C	19~24°C	17~20°C	16~18°C

• Transport

From Crowne Plaza Hefei or BEST WESTERN Premier Hotel to conference venue



Free shuttle buses are arranged from Crowne Plaza Hefei Hotel to the conference venue every morning, and back to Crowne Plaza Hefei Hotel from conference venue in the evening. Please refer to the **Conference Shuttle Buses** page for more details.

Taxi: It takes approximately 20 minutes (around 20 CNY). The destination for the conference venue should be the Southeast Gate of USTC east campus, it is close to the conference venue.

Recommended payment: mobile payment.

Useful Chinese phrases:

请帮我打一辆出租车(Please help me take a taxi)

我要去中国科学技术大学东校区东南门(I want to go to Southeast Gate of the University of Science and Technology of China, east campus)

我要去合肥皇冠假日酒店(I want to go to Crowne Plaza Hefei Hotel)

我要去贝斯特韦斯特精品酒店(I want to go to BEST WESTERN Premier Hotel)

需要扫哪个码付款,这个码是微信还是支付宝 (Which QR code should I scan by mobile phone to pay for the fee? Is this code the Alipay or WeChat Pay?

From Crowne Plaza Hefei or BEST WESTERN Premier Hotel to airport or train station



From Crowne Plaza Hefei or BEST WESTERN Premier Hotel to Hefei Xinqiao International Airport

Taxi: It is recommended that you note down the airport name in Chinese and show it to the taxi driver when taking a taxi. It takes approximately 50 minutes (around 80 CNY).

Recommended payment: mobile payment.

Useful Chinese phrases:

我要去合肥新桥国际机场(I want to go to Hefei Xinqiao International Airport)

需要扫哪个码付款,这个码是微信还是支付宝 (Which QR code should I scan by mobile phone to pay for the fee? Is this code the Alipay or WeChat Pay?)

Bus Route:

Take Airport Bus Line 4 to Hefei Xinqiao International Airport ("合肥新桥国际机场站" in Chinese). It takes approximately 50 minutes, departing every 20 minutes (ticket price 25 CNY).

Recommended payment: mobile payment or cash.

♣ From Crowne Plaza Hefei or BEST WESTERN Premier Hotel to Hefei South Railway Station

Taxi: It is recommended that you note down the railway station name in Chinese and show it to the taxi driver when taking a taxi. It takes approximately 20 minutes (around 25 CNY).

Recommended payment: mobile payment.

Useful Chinese phrases:

我要去合肥南站(I want to go to Hefei South Railway Station)

需要扫哪个码付款,这个码是微信还是支付宝 (Which QR code should I scan by mobile phone to pay for the fee? Is this code the Alipay or WeChat Pay?)

Bus Route:

Take Bus Route 156 (operating from 06:00 to 22:00) from Huandong Xincun Station ("环东新村站" in Chinese) to Hefeinan North Square Station ("合肥南站北广场站" in Chinese), it takes approximately 70 minutes (ticket price 2 CNY).

Recommended payment: CNY coin.

From Crowne Plaza Hefei or BEST WESTERN Premier Hotel to Hefei Railway Station

Taxi: It is recommended that you note down the railway station name in Chinese and show it to the taxi driver when taking a taxi. It takes approximately 25 minutes (around 35 CNY).

Recommended payment: mobile payment.

Useful Chinese phrases:

我要去合肥火车站(I want to go to Hefei Railway station)

需要扫哪个码付款,这个码是微信还是支付宝 (Which QR code should I scan by mobile phone to pay for the fee? Is this code the Alipay or WeChat Pay?)

Bus Route:

Take Bus Route 10 from "Wuzhua Tang" station ("五爪塘站" in Chinese) to "Hefei Railway Station" ("合肥站" in Chinese), approximately 80 minutes (operating from 06:00 to 22:00). (ticket price 2 CNY). **Recommended payment:** CNY coins.

• Conference Shuttle Buses

Bus pick-up time and route translation				
Date	Departure Time	Route		
O 1 1 1th	07:30	Crowne Plaza Hefei → Physical Science and Research Building		
Oct. 14 th	18:40		Physical Science and Research Building \rightarrow Crowne Plaza Hefei	
0 - 4 5th	08:20		Crowne Plaza Hefei \rightarrow Physical Science and Research Building	
Oct. 15th	18:50		Physical Science and Research Building \rightarrow Crowne Plaza Hefei	
	08:20		Crowne Plaza Hefei \rightarrow Physical Science and Research Building	
	14:30	77.10	Physical Science and Research Building \rightarrow Anhui Museum	
Oct. 16th	18:20	Museum Visiting	Anhui Museum → Crowne Plaza Hefei	
Oct. 16th	16:30		Physical Science and Research Building $ ightarrow$ National Synchrotron Radiation Laboratory	
	18:20	Laboratory Visiting	National Synchrotron Radiation Laboratory $ ightarrow$ Crowne Plaza Hefei	
	18:20		Physical Science and Research Building $$ Crowne Plaza Hefei	
Oct. 17 th	08:20	Crowne Plaza Hefei \rightarrow Physical Science and Research Building		
Oct. 17 th	18:55	Physical Science and Research Building \rightarrow Crowne Plaza Hefei		
Oct. 18 th	08:20		Crowne Plaza Hefei \rightarrow Physical Science and Research Building	
Oct. 18	14:20	Yueya Jiangnan Spring → Crowne Plaza Hefei		

• **ZOOM Information**

Join Zoom Meeting

https://us06web.zoom.us/j/81467846731?pwd=4tdMmeeF5obBm85slPmzW4n26XKChl.1

Meeting ID 814 6784 6731

Passcode mpgd2024

Conference Agenda

	Oct. 14, Monday		
3 rd Floor Conference Hall, Physical Science and Research Building, USTC			
08:00 - 08:30	:00 - 08:30 Registration		
	Conference Opening Chair: Jianbei Liu (University of Science and Technology of China)		
08:30 - 09:00	Welcome remarks: Zhengguo Zhao (Univer	rsity of Science and Technology of China)	
	Practical information: Jianbei Liu (Univers	sity of Science and Technology of China)	
	Session 1	Doma Tuo)	
	Chair: Mauro Iodice (INFN l	•	
09:00 - 09:30	(Invited) EIC and ePIC Detector	Silvia Dalla Torre INFN, Trieste	
09:30 - 09:55	The micro-RWELL for future HEP challenges and beyond	Matteo Giovannetti INFN-LNF	
09:55 - 10:20	The CYGNO experiment, a Gaseous TPC for directional Dark Matter searches	Fiorina Davide GSSI & INFN	
10:20 - 10:45	Study on the long-term stability of thermal bonding Micromegas detectors for high gas pressure experiments	Yunzhi Peng University of Science and Technology of China	
10:45 - 11:15	Conference photo	& Coffee break	
	Session 2		
	Chair: Chengguang Zhu (Shando		
11:15 - 11:40	Real time Migdal effect searches with deep learning-based object detection	Jeffrey Schueler University of New Mexico	
11:40 - 12:05	PMT analysis for Negative Ion Drift and 3D reconstruction	David Marques Gran Sasso Science Institute	
12:05 - 12:30	Recent results on the low-pressure GEM- based TPC at an Accelerator Mass Spectromete	Tamara Shakirova Budker Institute of Nuclear Physics	
12:30 - 14:00	Buffet L	unch	
Session 3			
Chair: Yuxiang Zhao (Institute of Modern Physics, Chinese Academy of Sciences)			
14:00 - 14:30	(Invited) Optical readout of MPGDs: applications and R&D	Florian Maximilian Brunbauer CERN	
14:30 - 14:55	GEM Detectors for the CMS Endcap Muon System: status of three detector stations	Yanwen Hong Vrije Universiteit Brussel	
14:55 - 15:20	ATLAS Micromegas Performance Studies with LHC Run3 Data	Simone Francescato Harvard University	
15:20 - 15:45	Study of signal formation in the ERAMs of T2K TPC	Daniele D'Ago University of Padova and INFN Padova	

15:45 - 16:10	Performances of a Medium-Size Boron- coated GEM detector for thermal neutrons at the ISIS Neutron and Muon Source	Stephanie Cancelli University of Milano-Bicocca	
16:10 - 16:40	Coffee	Break	
Session 4 Chair: Damien Neyret (CEA Saclay IRFU, Université Paris-Saclay)			
16:40 - 17:05	Research on TPC physics experiments and simulation methods at Back-n white neutron source	Haizheng Chen Dongguan Neutron Science Center	
17:05 - 17:30	Performance of resistive MPGD for hadron calorimeter	Anna Stamerra INFN, Bari	
17:30 - 17:55	Towards MPGDs with embedded pixel ASICs	Lucian Scharenberg CERN	
17:55 - 18:20	Simulating Timing Performance of Resistive Detectors with Garfield++	Djunes Janssens CERN	
19:00 - 21:00	Reception		

Oct. 15, 2024 Tuesday				
3 rd	3 rd Floor Conference Hall, Physical Science and Research Building, USTC			
	Session 5			
Chair	Chair: Zhijia Sun (Institute of High Energy Physics, Chinese Academy of Sciences)			
00.00.00.20	(Invited) Future Colliders for High Energy	Jianbei Liu		
09:00 - 09:30	Physics in China (CEPC & STCF)	University of Science and Technology of China		
	PICOSEC Micromegas precise-timing	Yue Meng		
09:30 - 09:55	detectors towards large-scale applications and	University of Science and Technology of		
07.30 07.33	optimization	China		
	Experimental comparison of strip micromegas	Cl. Wil		
09:55 - 10:20	readouts in gaseous TPCs for directional	Ghrear Majd		
	recoil detection	University of Hawaii		
	Robust photocathodes and spatial resolution	Djunes Janssens		
10:20 - 10:45	studies of resistive PICOSEC Micromegas	CERN		
	precise-timing detectors	9274.		
10:45 - 11:15	Coffee I	Break		
	Session 6			
	Chair: Gabriele Croci (University of	,		
11:15 - 11:40	Exploitation of a 2D triple GEM detector at	Celora Agostino		
	the MASTU spherical tokamak	University of Milan-Bicocca Darina Zavazieva		
11:40 - 12:05	Comparative study of resistive MPGD technologies	Ben-Gurion University of the Negev;		
11.40 - 12.03		Weizmann Institute of Science		
	Wavelength shifters for optically read out	Florian Maximilian Brunbauer		
12:05 - 12:30	MPGDs	CERN		
12:30 - 14:00	Buffet Lunch			
	Session 7			
	Chair: Hugo Natal da Luz (Czech Technic			
14:00 - 14:30	(Invited) Progress of Experiments in China's	Yue Meng		
	Underground Laboratories	Shanghai Jiao Tong University		
14:30 - 14:55	A cylindrical μRGroove detector for the super	Siqi He University of Science and Technology of		
14.30 - 14.33	tau-charm facility	China		
	μ-RWELL muon system and pre-shower for	Riccardo Farinelli		
14:55 - 15:20	FCC-ee	INFN - Bologna		
15:20 - 15:45	Development of the high-rate capable DLC-	Masato Takahashi		
13:20 - 13:43	RPC based on the current evacuation pattern	Kobe University		
15:45 - 16:15	Honoring Atsuhiko Ocl			
	Chair: Eraldo Oliveri (CERN)			
16:15 - 16:45	Coffee I	Break		
	Session 8			
16:45 - 18:30	Poster S	ession		
19:00 - 21:00	Buffet Dinner			

Oct. 16, 2024 Wednesday

3rd Floor Conference Hall, Physical Science and Research Building, USTC

	Floor Conference Hair, Thysical Science an	d Research Dunuing, 051C		
	Session 9			
	Chair: Shikma Bressler (Weizmann Institute of Science)			
7/4/4	(In-it-d) China and Hating a section of the section	Zhijia Sun		
09:00 - 09:30	(Invited) China spallation neutron source and neutron detectors	Institute of High Energy Physics, Chinese		
	neutron detectors	Academy of Sciences		
09:30 - 09:55	A novel technology for element-sensitive 3D	Xiao Zhao		
<u> </u>	tomography	PSI		
	New Mission Concept: a high precise MeV	Libo Wu		
09:55 - 10:20	Gamma Telescope using TPC Technique read	Deep Space Exploration Laboratory		
	out with Micromegas	1 1 1		
10.20 10.45	Development and Preliminary Results of a Large-Volume Time Projection Chamber for	Fiorina Davide		
10:20 - 10:45	X-ray Polarimetry	GSSI & INFN		
	•			
10:45 - 11:15	10:45 - 11:15 Coffee Break			
Session 10				
	Chair: Lei Zhao (University of Science an			
	A 512-channel FEE prototype based on the	Jiaming LI		
11:15 - 11:40	custom ASIC for MPGD	University of Science and Technology of		
		China		
11 40 12 05	Application of the VMM3a/SRS for tracking	Karl Jonathan Flöthner		
11:40 - 12:05	systems and TPCs	University of Bonn, Germany, CERN,		
	Development and experimental study of the	Geneva, Switzerland Yu Wang		
12:05 - 12:30	high spatial resolution muography system	University of science and technology of		
12.03 - 12.30	with Micromegas detectors	China		
12 20 14 00				
12:30 - 14:00	12:30 - 14:00 Buffet Lunch			
Guided tour (two options available)				
	Tour 1: Anhui Museum (Anhui provincial mus			
14:30 - 18:00	Tour 2: State key laboratory of particle dete	ction and electronics, National synchrotron		
	radiation laboratory (both on USTC campus)			
19:00 - 21:00	Banquet			

	Oct. 17, 2024 Thursday			
3 rd	3 rd Floor Conference Hall, Physical Science and Research Building, USTC			
	Session 11			
	Chair: Xiaomei Li (China institute	567		
	(Invited) Quantum Information: From Test of	Yuao Chen		
09:00 - 09:30	Quantum Foundations to New Quantum	University of Science and Technology of		
	Technologies	China		
		Gianluigi Cibinetto on behalf of CGEM-IT		
09:30 - 09:55	Commissioning of the CGEM Inner Tracker	working group		
		INFN Ferrara		
09:55 - 10:20	Nano-pattern gaseous detector (NPGD)	Yalçın Kalkan		
		Bolu Abant İzzet Baysal University		
10:20 - 10:45	Resistive High Granularity Micromegas for	Mauro Iodice		
	Future Detectors. Status and Perspectives	INFN Roma Tre		
10:45 - 11:15	Coffee I	Break		
	Session 12			
	Chair: Stefano Levorato (CERN)		
	Development of a new large area Micromegas	Maxim Alexeev		
11:15 - 11:40	detector and its ToRA-based readout			
	electronics for AMBER experiment at CERN	University of Turin and INFN sez. Torino		
	High Spatial Resolution Time Projection	Huirong Qi		
11:40 - 12:05	Chamber Technology R&D for the Future	CAS,Institute of High Energy Physics		
	Circular e+e- Collider	CAS, institute of Trigit Energy Triysics		
12:05 - 12:30	The Ultra-Low material budget GEM based	Francisco Garcia		
12.03 12.30	TPC for tracking with VMM3a readout	HIP		
12:30 - 14:00	Buffet Lunch			
	The 100th Anniversary of Georges	Charpak's Birth		
	Chair: Eraldo Oliveri (C	CERN)		
	Chair: Jianbei Liu (University of Science a	nd Technology of China)		
	Georges Charpak Prize Award Ceremony			
	Chair: Silvia Dalla Torre (Istituto Nazionale di	Fisica Nucleare)		
	Anton Oed Prize Award Ceremony			
	Chair: Maxim Titov (CEA)			
	Invited speeches			
14:00 - 16:00	"Georges Charpak: between Reality and Im	agination", Fabio Sauli (CERN)		
	"Georges Charpak: the Man beyond science	", Ioannis Giomataris (CEA-Saclay)		
	Public lecture on gaseous detectors, Maxim	Titov (CEA)		
	Questions and Answers			
16:00 - 16:30	Coffee 1	Break		

	Session 13			
	Chair: Zhiyong Zhang (University of Science	e and Technology of China)		
16:30 - 16:55	Numerical simulation of space charge effects in MPGDs	Maxim Titov CEA		
16:55 - 17:20	Technical challenges for the new T2K ND20 High Angle TPCs	Stefano Levorato INFN PD		
17:20 - 17:45	Ceramic GEM neutron detector and its applications at China Spallation Neutron Source	Jianrong Zhou The Institute of High Energy Physics of the Chinese Academy of Sciences		
17:45 - 18:10	MicroPattern Gaseous Detectors for Particle Detection in Space	Hongbang Liu Guangxi University		
18:10 - 18:35	Application of Micro Pattern Gaseous Detectors in Space X-ray Polarimetry	Weichun Jiang Institute of High Energy Physics, Chinese Academy of Sciences		
19:00 - 21:00	Buffet D)inner		

Oct. 18, 2024 Friday

3 rd Floor Conference Hall,Physical Science and Research Building,USTC						
Session 14						
Chair: Hongbang Liu (Guangxi University)						
09:00 - 09:25	(Invited) SALSA: a new versatile readout	Neyret Damien				
	ASIC for MPGD detectors	CEA Saclay IRFU				
09:25 - 09:50	Progress on Readout Electronics for TPC for	Zhi Deng				
	Large Collider Experiments	Tsinghua University				
09:50 - 10:15	GEM operation in Nitrogen based gas					
	mixtures: opening new applications for X-	Gabriele Croci University of Milano - Bicocca				
	Rays, UV-light and neutron detection with the					
	use of environmental-friendly mixtures					
10:15 - 10:45	Coffee Break					
	Session 15					
Chair: Florian Maximilian Brunbauer (CERN)						
	MIMAC – 35 x 35 cm2: 3D-nuclear recoil	Zhiyong Zhang				
10:45 – 11:10	tracks detection for directional Dark Matter	University of Science and Technology of				
	detection and Neutron spectroscopy	China				
11:10 – 11:35	No neutrino Double beta decay Experiment - NvDEx	Chengxin Zhao				
		Chinese Academy of Sciences, Institute of				
		modern physics				
11:35 – 12:00	Production of Resistive Micromegas:	Mauro Iodice				
	Technology Transfer to Industry	INFN Roma Tre				
12:00 – 12:15	Closing remarks: Eraldo Oliveri (CERN)					
12:15 - 14:00	Buffet Lunch					



Contact us

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