



中国散裂中子源缪子源实验站第三届 缪子应用研讨会

会议手册

The 3rd Workshop on Muon Science Technology and Industry Conference Handbook

主办单位 Organizers

散裂中子源科学中心

中国科学院高能物理研究所

Spallation Neutron Source Science Center

Institute of High Energy Physics, Chinese Academy of Sciences

2026 年 10 月 23-26 日
23-26 October 2026

中国 广东 东莞
Dongguan, Guangdong, China

东莞松山湖华美达广场酒店
Ramada Plaza by Wyndham Dongguan Songshan Lake

MELODY2026

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Science Technology and Industry**

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会议介绍与委员会

About the workshop and committees

会议围绕缪子束流技术、缪子自旋旋转 / 弛豫 / 共振 (μ SR) 及其应用、负缪子元素分析开展交流, 为中国散裂中子源缪子实验站 MELODY 的建设与应用提供参考。

The workshop covers muon beam technology, muon spin rotation, relaxation and resonance (μ SR), and negative-muon elemental analysis, informing the development and applications of the CSNS muon station, MELODY.

会议主席 Workshop co-chairs

王生 WANG Sheng · 鲍煜 BAO Yu IHEP / CSNS

科学程序委员会 Scientific Programme Committee

姓名 Name	单位 Affiliation
Adrian Hillier / Chair	ISIS
Thomas Prokscha	PSI
Akihiro Koda	KEK / J-PARC
Kenji Kojima	TRIUMF
Isao Watanabe	RIKEN
Yasuhiro Miyake	KEK / CSNS
SHU Lei	Fudan University
MA Jie	Shanghai Jiao Tong University
NING Fanlong	Zhejiang University
YE Bangjiao	University of Science and Technology of China

本地组织委员会 Local Organizing Committee

LI Qiang · LI Yang · LV You
MO Xiaoyin · WANG Xiaoman · WU Chen

会场与报到

Venue and registration

会议酒店 Conference hotel

东莞松山湖华美达广场酒店

Ramada Plaza by Wyndham Dongguan Songshan Lake

地址：广东省东莞市寮步镇松山湖大道工业西路转科技四路。

Address: Keji 4th Road, Gongye West Road, Songshanhu Avenue, Liaobu Town, Dongguan, Guangdong, China.

报到安排 Registration

报到日期为 2026 年 10 月 23 日（周五）。学术会议于 10 月 24 日 08:30 开始。

Registration is scheduled for Friday 23 October 2026. The scientific programme begins at 08:30 on 24 October.

注册与食宿费用 Registration and hospitality

会议免收注册费，食宿由会务组统一安排。

There is no registration fee. Accommodation and meals are coordinated by the organizers.

会务联系 Secretariat

莫晓茵 MO Xiaoyin

moxy@ihep.ac.cn

10月24日上午日程

Saturday 24 October 2026 Morning

北京时间 UTC+8 · China Standard Time

时间 Time	报告人 Speaker	报告或活动 Talk or activity
08:30–08:45	Xiao Li	欢迎致辞 Welcome
主持 Chair Y. Miyake		
08:45–09:15	Adrian Hillier	Pulsed muon facility
09:15–09:45	Yu Bao	Progress of MELODY and its applications
09:45–10:15	Kenji Kojima	Status of TRIUMF
10:15–10:45	—	茶歇与合影 Coffee break & photo
主持 Chair A. Hiller		
10:45–11:15	Feng Zhang	Laser-driven compact muon source (LACMUS) production optimization for versatile applications
11:15–11:45	Rhea Stewart	Super-MuSR
11:45–12:15	Yukinori Nagatani	Muon microscopy
12:15–14:00	—	午餐 Lunch

10月24日下午日程

Saturday 24 October 2026 Afternoon

北京时间 UTC+8 · China Standard Time

时间 Time	报告人 Speaker	报告或活动 Talk or activity
主持 Chair Wu. Chen		
14:00–14:30	Shoichiro Nishimura	Making efficient use of pulsed muon beams: transient μ SR
14:30–15:00	Martin Mansson	Energy
15:00–15:30	Peter Baker	What muons can tell you about energy materials
15:30–16:00	—	茶歇 Coffee break
主持 Chair Ma Jie		
16:00–16:30	Vadim Grinenko	Superconductivity with broken time-reversal symmetry in Sr_2RuO_4 : pros and cons
16:30–17:00	Tian Shang	Unconventional superconductivity in topological chiral crystal
17:00–17:30	Guoqiang Zhao	Unravelling quantum materials with μ SR and complementary probes
17:30–17:50	Qisi Wang	Probing the symmetry of altermagnetic interactions
18:00	—	晚餐 Dinner

10月25日上午日程

Sunday 25 October 2026 Morning

北京时间 UTC+8 · China Standard Time

时间 Time	报告人 Speaker	报告或活动 Talk or activity
主持 Chair Lv You		
09:00–09:30	Kenya Kubo	Applications of negative muons in heritage science at J-PARC
09:30–10:00	Michael Heiss	Muon-induced X-ray emission at PSI: from elemental analysis towards tomography
10:00–10:30	Sayani Biswas	A deep dive into materials with negative muons
10:30–10:50	—	茶歇 Coffee break
主持 Chair K. Kojima		
10:50–11:10	Isao Watanabe	Possible machine-learning μ SR data analysis collaborating with ASEAN
11:10–11:30	Duangmanee Wongratanaphisan	Interfacial passivation for stable carbon-electrodes-based perovskite solar cells and modules
11:30–11:50	Thapanee Sarakonsri	Waste-to-energy materials: unlocking the potential of biomass for sustainable storage technologies
11:50–12:10	Chairote Piyakulworawat	Coupled dimerized quantum spin chains in Cu_5SbO_6
12:10–13:40	—	午餐 Lunch

10 月 25 日下午日程

Sunday 25 October 2026 Afternoon

北京时间 UTC+8 · China Standard Time

时间 Time	报告人 Speaker	报告或活动 Talk or activity
主持 Chair I.Watanabe		
13:40–14:00	Zulkaida Akbar	Effective phase transition identification with dimensional reduction techniques on the muon spectroscopy data
14:00–14:20	Kittiwit Matan	Magnetic properties and spin dynamics in low-dimensional and frustrated magnets as probed by neutron scattering
14:20–14:40	Suci Winarsih	Muon spin relaxation in nanoscale magnetic materials: current results and future opportunities for Indonesian rare-earth functional materials
14:40–15:00	Nurul Asikin Binti Mijan	The rational synthesis of next-generation core–shell adsorbents for efficient CO ₂ capture
15:00–15:20	Woraprom Passatorntaschakorn	Reusable dry-laminated PVC thermal interface engineering for flexible carbon electrode-based perovskite solar cells and modules
15:30–17:30	—	参观中国散裂中子源与 MELODY Tour to CSNS/MELODY
18:00	—	会议晚宴 Banquet

参观集合地点与交通安排以现场通知为准。

The assembly point and transport arrangements for the visit will be announced on site.

10月26日上午日程

Monday 26 October 2026 Morning

北京时间 UTC+8 · China Standard Time

时间 Time	报告人 Speaker	报告或活动 Talk or activity
主持 Chair Li Yang		
09:00–09:30	Liv Yarrow	Expanding Monetary History with Muons: New Insights on Rome's First Coinage
09:30–10:00	Gen Li	Muon Physics and Applications: A View from Cultural Heritage Research
10:00–10:30	Juliet Spedding	Without scratching the surface: depth profiling compositional muon analysis of ancient faience from Egypt and Sudan
10:30–10:50	—	茶歇 Coffee break
主持 Chair Li Qiang		
10:50–11:20	Ping Miao	Persistent spin dynamics in magnetically ordered honeycomb cobalt oxides
11:20–11:50	Hanjie Guo	μ SR studies of spin dynamics in frustrated rare-earth magnets
11:50–12:10	Haifeng Li	Neutrons say 'disordered', muons say 'ordered': crystal field physics and insights into local probes in SrTm_2O_4
12:10–14:00	—	午餐 Lunch

10月26日下午日程

Monday 26 October 2026 Afternoon

北京时间 UTC+8 · China Standard Time

时间 Time	报告人 Speaker	报告或活动 Talk or activity
主持 Chair Pan Ziwen		
14:00–14:30	Amba Datt Pant	μ SR in water: new insights into muon-biology
14:30–15:00	Yasmine Sassa	When Charge Order Meets Superconductivity: Insights from Transition-Metal Dichalcogenides
15:00–15:30	Xueqing Yan	Muon acceleration
15:30–15:50	—	茶歇 Coffee break
主持 Chair A. Hiller		
15:50–16:20	Weiqliang Yu	NMR probe for spinon excitations in quantum magnets
16:20–16:50	Michael Smidman	Complementary muon-spin relaxation and neutron scattering studies of heavy fermion materials
16:50–17:10	Yuanjing Cai	Probing muonium reactivity in low-valent main-group compounds: μ SR studies of NHC-stabilized germanium(II) dichloride complexes and phosphasilenes
17:10–17:30	Yu Bao	闭幕总结 Close out

