

1ST SYMPOSIUM ON INTERMEDIATE-ENERGY HEAVY ION COLLISIONS

TSINGHUA • BEIJING • CHINA

2018.4.7 – 2018.4.11

Organized by

Tsinghua University

International Advisory Committee

(by Alphabetical Order in First Name)

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Bengt Friman	GSI Helmholtzzentrum für Schwerionenforschung
Betty Tsang	Michigan State University
Boqiang Ma	Peking University
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Hengtong Ding	Central China Normal University
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Jianping Ma	Institute of Theoretical Physics, CAS
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Norbert Herrmann	Heidelberg University
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Takehito Saito	GSI Helmholtzzentrum für Schwerionenforschung
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Yanlin Ye	Peking University
Yugang Ma	Shanghai Institute of Applied Physics, CAS
Zuotang Liang	Shandong University

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Scientific Program

Venue: Zheng Yu-tong Lecture Hall, Department of Physics, Tsinghua University

Time: April 8 – 10, 2018

Date: Apr. 8 Morning			
Session 1		Chair	
HIAF status and the interplay btw HIC and Astrophysics		Nu Xu (Institute of Modern Physics, CAS)	
Time	Name	Institute	Title/Content
8:30 – 8:55 (20+5)	Yayu Wang	Tsinghua University	Welcome Address and introduction to Department of Physics
8:55 – 9:30 (30+5)	Charles Horowitz	Indiana University	Gravitational waves and the dense matter equation of state
9:30 – 10:05 (30+5)	Xurong Chen	Institute of Modern Physics, CAS	Status and perspective of HIAF
10:05 – 10:35	Symposium Photo, Coffee/Tea Break		
Session 2 Hadrons and Hypernucleus		Chair: Jie Meng (Peking University)	
10:35 – 11:10 (30+5)	Bingsong Zou	Institute of Theoretical Physics, CAS	Hadron Spectroscopy with Charm and Beauty at EicC/HIAF
11:10 – 11:45 (30+5)	Zhihong Ye	Argonne National Lab	Nucleon-Nucleon Short-Range Correlations
11:45 – 12:20 (30+5)	Jinhui Chen	Shanghai Institute of Applied Physics, CAS	Hypernucleus physics from view point of heavy ion experiment
12:20 – 14:00	Lunch Break		
Date: Apr. 8 Afternoon			
Session 3 QCD phase diagram		Chair: Feng Liu (Central China Normal University)	
14:00 – 14:35 (30+5)	Hengtong Ding	Central China Normal University	Lattice studies on the QCD phase diagram
14:35 – 15:10 (30+5)	Mei Huang	Institute of High Energy Physics, CAS	QCD phase diagram and critical end point
15:10 – 15:45 (30+5)	Xiaofeng Luo	Central China Normal University	Search for QCD Critical Point with Fluctuations of Conserved Quantities in Relativistic Heavy –ion Collisions
15:45 – 16:05	Coffee/Tea Break		
Session 4 EOS with IHIC Experiments		Chair: Yan-An Luo (Nankai University)	
16:05 – 16:40 (30+5)	Sherry Yennello	Texas A&M University	Experimental Constraints on the Nuclear Equation of State from Heavy Ion Collisions
16:40 – 17:15 (30+5)	Giuseppe Verde	INFN Sezione di Catania	Exploring EoS with heavy-ion collisions and particle correlations at intermediate energies
17:15 – 17:50 (30+5)	WeiPing Liu	China Institute of Atomic Energy (CIAE)	Oppertunities with extended EOS study by using future Beijing ISOL
18:20– 20:20	Banquet		(Quan Ju De Beijing Duck)

※ Note

Venue: Zheng Yu-tong Lecture Hall, Department of Physics

Date: Apr. 9 Morning			
Session 5 Nuclear EOS in dense objects		Chair: Dehua Wen (South China University of Technology)	
Time	Name	Institute	Title/Content
8:30 – 9:05 (30+5)	LieWen Chen	Shanghai Jiaotong University	Nuclear Matter EOS and its Impact on the Neutron Star Physics
9:05 – 9:40 (30+5)	Renxin Xu	Peking University	Strong Matter in Astrophysics
9:40 – 10:15 (30+5)	Ang Li	Xiamen University	Dense matter EOS with GW170817
10:15 – 10:35	Coffee/Tea Break		
Session 6		Chair :	
Nuclear EOS of neutron rich matter and the relevant effects		Shan-Gui Zhou (Institute of Theoretical Physics, CAS)	
10:35 – 11:10 (30+5)	Betty Tsang	Michigan State University	Laboratory Probes of the Neutron-Matter Equation of State
11:10 – 11:45 (30+5)	Che-ming Ko	Texas A&M University	Pion transport in heavy ion collisons
11:45 – 12:15 (25+5)	Gaochan Yong	Institute of Modern Physics, CAS	Probing proton transition momentum in neutron-rich matter
12:15 – 14:00	Lunch Break		
Date: Apr. 9 Afternoon			
Session 7 RIB physics and future opportunities		Chair : Baohua Sun (Beihang University)	
14:00 – 14:35 (30+5)	Hiroyoshi Sakurai	RIKEN	Recent activities and perspectives at RIBF
14:35 – 15:10 (30+5)	Isao Tanihata	Beihang University	High momentum nucleon near the ground state of nuclei
15:10 – 15:40 (25+5)	Yingxun Zhang	China Institute of Atomic Energy (CIAE)	Bayesian inference on the Skyrme energy density functional from HICs
15:50 – 16:10	Tea Break		
Session 8 QCD phase structure		Chair : Pengfei Zhuang (Tsinghua University)	
16:10 – 16:45 (30+5)	Li Yan	McGill University	Out-of-equilibrium system and relativistic hydrodynamics in heavy-ion collisions
16:45 – 17:20 (30+5)	Yin Yi	MIT	Searching for the QCD critical point: new observables and new theoretical developments
17:20 – 17:50 (25+5)	Shengqin Feng	China Three Gorges University	Chiral magnetic effect and chiral magnetic current in relativistic heavy-ion collisions
17:50 – 18:20 (25+5)	Jianhua Gao	Shandong University	Disentangling Quantum Transport Equation for Chiral Fermions
18:40 – 20:00	Dinner Time		Jiasuo Guest House

*** Note**

Venue: Zheng Yu-tong Lecture Hall, Department of Physics

Date: Apr. 10 Morning			
Session 9 QCD Phase diagram		Chair : Zuotang Liang (Shandong University)	
Time	Name	Institute	Title/Content
8:30 – 9:05 (30+5)	Fuqiang Wang	Huzhou University	Survey of chiral magnetic effect observables: what works? what doesn't?
9:05 – 9:40 (30+5)	Yuxin Liu	Peking University	QCD Phase Diagram via A Nonperturbative Approach
9:40 – 10:15 (30+5)	Xu-Guang Huang	Fudan University	Vorticity and its novel effects in heavy-ion collisions
10:15 – 10:35	Coffee/Tea Break		
Session 10 Hadron Physics		Chair : Lianyi He (Tsinghua University)	
10:35 – 11:10 (30+5)	Takahiko Saito	GSI Helmholtz Centre for Heavy Ion Research	Hypernuclear physics program at HIAF
11:10 – 11:45 (30+5)	Jianping Chen	JLAB	Highlights and Opportunities in Nuclear and Hadron Physics
11:45 – 12:15 (25+5)	Jun Xu	Shanghai Institute of Applied Physics, CAS	Spin dynamics in heavy-ion collisions
12:15– 14:00	Lunch Break		
Date: Apr. 10 Afternoon			
Session 11		Chair :	
Dense steller object and nuclear physics		Zhaoqing Feng (Institute of Modern Physics, CAS)	
14:00 – 14:35 (30+5)	Toshitaka Kajino	NAO/Beihang University	Recent progress of the studies on neutron star mergers and its impact on nuclear physics
14:35 – 15:10 (30+5)	Krzysztof Pomorski	Maria Curie Sklodowska University	On stability of heavy and superheavy nuclei
15:10 – 15:45 (30+5)	XiaoYuan Li	Institute of Theoretical Physics, CAS	Physics of High Intensity Muon and Neutrino Beams at CIADS/HIAF Accelerator Complex
15:45 – 16:15 (25+5)	Gaoqing Cao	Sun Yat-sen University	Preliminary study of gravitational wave associated with first-order transition in the core of neutron star
16:15 – 16:50	Coffee/Tea Break		
Session 12 Summary		Chair : Zhe Xu (Tsinghua University)	
16:50 – 17:10	Zhigang Xiao	Tsinghua University	Summary Talk I
17:10 – 17:30	Jinfeng Liao	Indiana University	Summary Talk II

※ Note

Maps and Routes

※ Symposium venue:

Zheng Yu-tong Lecture Hall,

Department of Physics, Science Building, Tsinghua University

(清华大学理科楼物理系郑裕彤讲堂)

※ Hotels: Jinchunyuan Guest House (近春园)

Unisplendour International Center (紫光国际中心)

1. Routes from Beijing International Airport to Hotels

(1) To Tsinghua Unisplendour International Center

- **By Subway**

Take the subway airport line, make the first exchange at San-Yuan-Qiao station for Line 10 directing to Tai-Yang-Gong station, make the second exchange at Zhi-Cun-Road station for Line 13 directing to Wu-Dao-Kou station. Get off at the Wu-Dao-Kou station. Walk westwards for about 300 meters, pass by a large cross and walk for another 200 meters, Unisplendour International Center is on your left.

- **By Taxi**

Approximately 120 CNY including the highway toll before 23:00. About 160 CNY during the night.

- **Notice**

Please send me to Tsinghua Unisplendour International Center :

请把我带到清华紫光国际交流中心。地址：清华大学东门外

- **Contacts**

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Email: qianw@mail.tsinghua.edu.cn

(2) To Tsinghua University, Jinchunyuan Guest House

- **By Subway**

Take the subway airport line, make the first exchange at San-Yuan-Qiao station for Line 10 directing to Tai-Yang-Gong station, make the second exchange at Hai-Dian-Huang-Zhuang station for Line 4 directing to Zhong-Guan-Cun station. Get off at the Yuan Ming Yuan Park station. Walk eastwards for 200 meters and you enter the campus. Walk for 300 meters and turn left at the swimming pool, walk for another 300 meters for Jinchunyuan Guest House.

- **By Taxi**

Approximately 120 CNY including the highway toll before 23:00. About 160 CNY

- **Notice**

Please send me to Tsinghua University, Jinchunyuan Guest House

请把我带到清华大学近春园（清华大学校内）

- **Contacts**

Wang, Yijie (王轶杰)

Tele: (+86) 13661055897

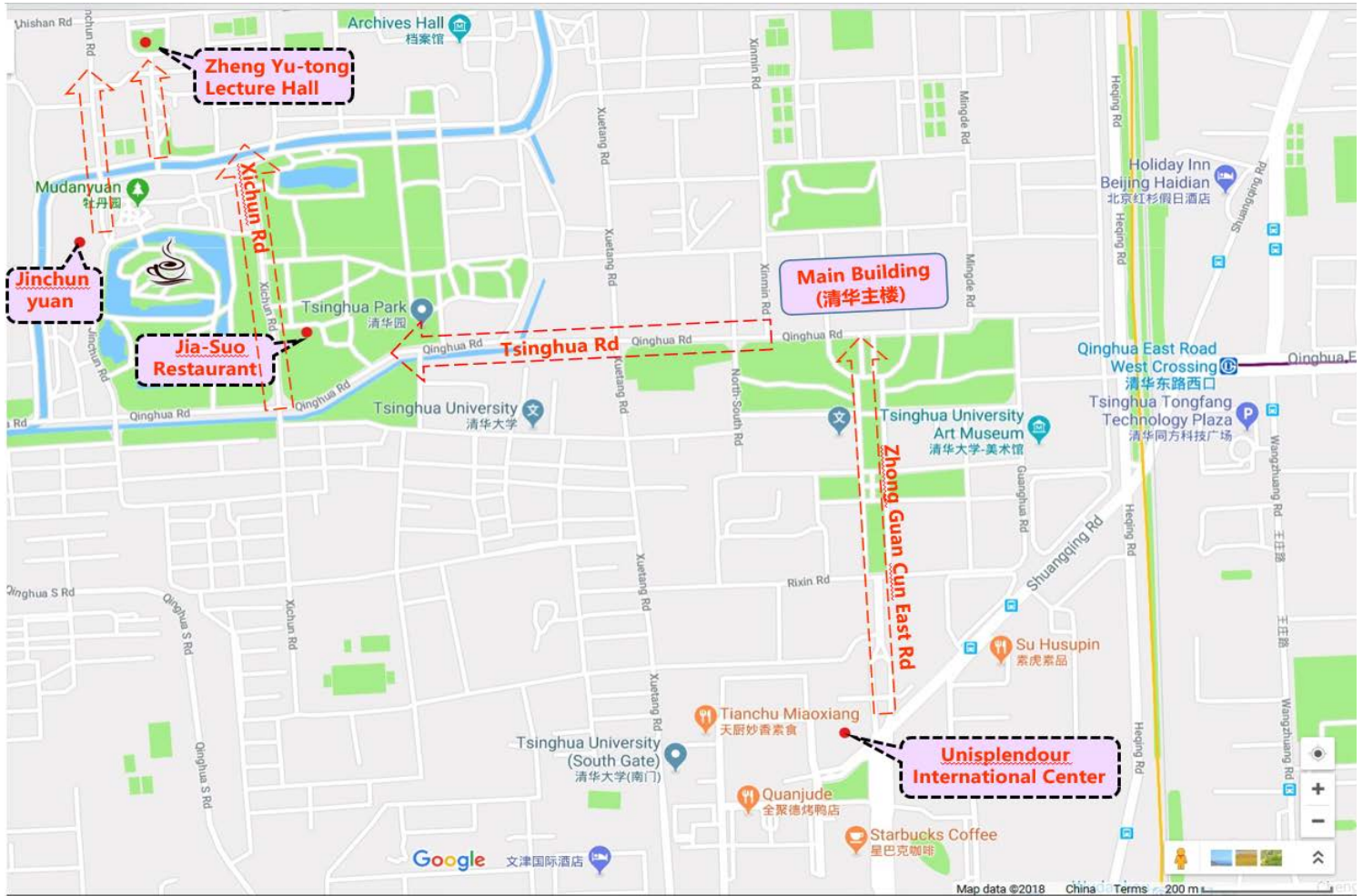
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Diao, Xinyue (刁昕玥)

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2. Map from Hotels to the Symposium Venue



Please click here to know more:

<http://www.google.cn/maps/place/Tsinghua+University/@39.997434,116.313124,15z/data=!3m1!4b1?hl=en>

3. Routes form Hotels to the Symposium Venue

(1) Route from *Jinchunyuan Guest House* to *Zheng Yu-tong Lecture Hall*

- ※ Go towards north along Jinchun Road for about 400m, on your right is the **Zheng Yu-tong Lecture Hall (郑裕彤讲堂)** in the Science Building.

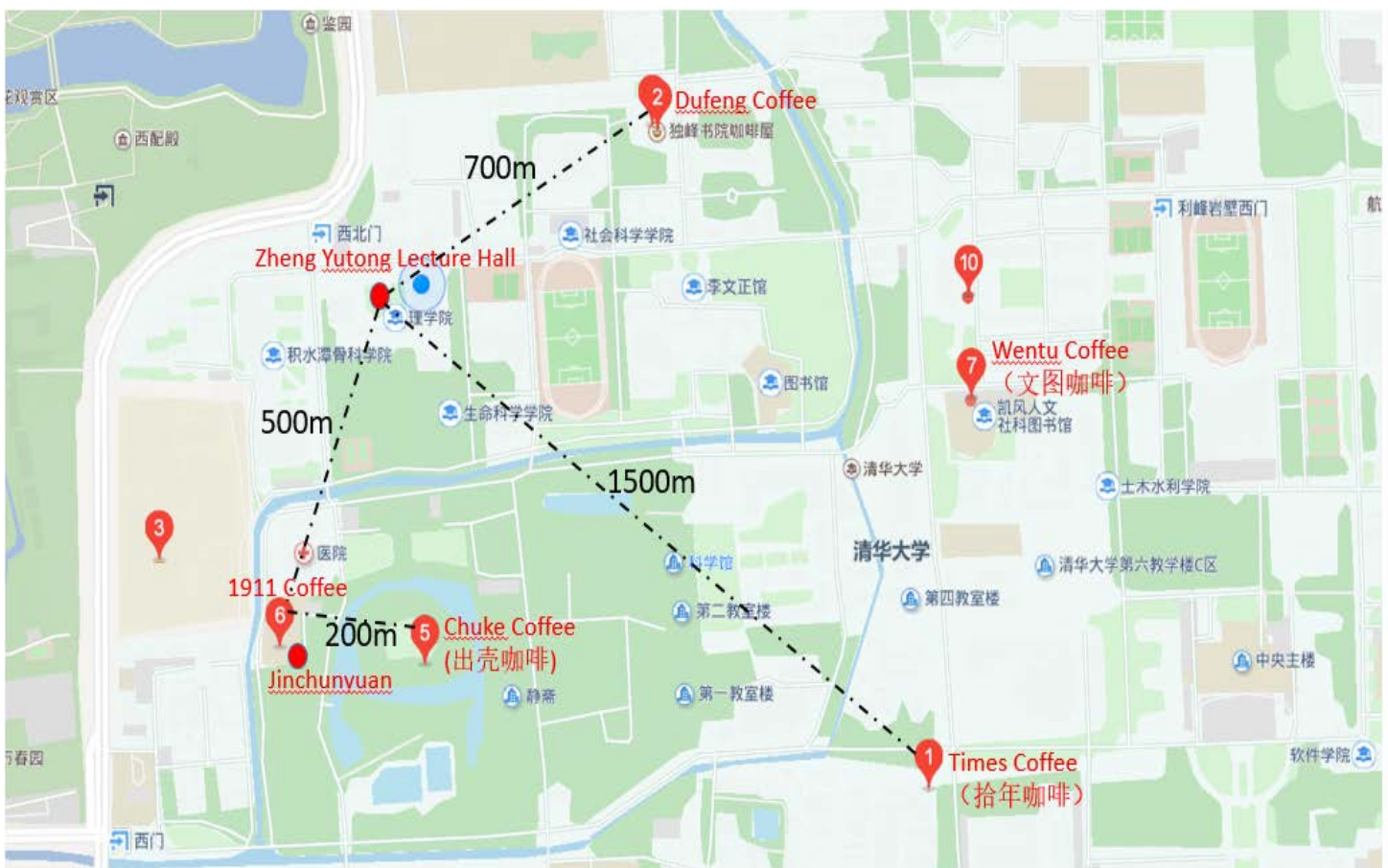
(2) Route from *Unisplendour International Center* to *Zheng Yu-tong Lecture Hall*

- ※ Enter Tsinghua Campus from Tsinghua East Gate. Go straight, turn left in front of the Tsinghua Main Building. Then enter Tsinghua Road, walk for about 1km, you can see The Historical Gate “清華園”. Walk for another 200 meters, turn right at Xi-Chun Road. Go straight, turn left at the end of Xi-Chun Road, walk for about 50 meters, you will see The Science Building 50 meters on your right.

※ Information of School Bus

Date	Departure	From	To
April 8	08: 10	West gate of Unisplendour International Center	Department of Physics
April 9	08: 10	West gate of Unisplendour International Center	Department of Physics
April 10	08: 10	West gate of Unisplendour International Center	Department of Physics

4. Coffee Shops in Tsinghua Campus



Contact Us

Local Organization Committee			
Name	Institution	Email	Note
Lianyi He	Tsinghua University	lianyi@mail.tsinghua.edu.cn	
Jinfeng Liao	Indiana University	liaoji@indiana.edu	
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Nu Xu	Institute of Modern Physics, CAS	nxu@lbl.gov	
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Qian Wang	Tsinghua Univ. (Secretary)	qianw@mail.tsinghua.edu.cn	※ Reimbursement issues
Volunteer students			
Name	Institution	Email	Note
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※ Contact us if you have any questions about iHIC2018

Participants

(by Alphabetical Order in First Name)

Num.	Name	Institution	Email
1	Ang Li	Xiamen University	
2	Baohua Sun	Beihang University	
3	Bingsong Zou	Institute of Theoretical Physics, CAS	
4	Bozena Pomorska	Maria Curie Sklodowska University	
5	Charles Horowitz	Indiana University	
6	Che-Ming Ko	Texas A&M University	
7	Chun-Gui Duan	Hebei Normal University	
8	Chunwang Ma	Henan Normal University	
9	Dehua Wen	South China University of Technology	
10	Feng Liu	Central China Normal University	
11	Fuqiang Wang	Huzhou University	
12	Gang Chen	China University of Geosciences	
13	Gaochan Yong	Institute of Modern Physics, CAS	
14	Gaofeng Wei	Xi'an University of Arts and Sciences	
15	Gaoqing Cao	Sun Yat-sen University	
16	Giuseppe Verde	INFN Sezione di Catania	
17	Hengtong Ding	Central China Normal University	
18	Hiroyoshi Sakurai	RIKEN	
19	Huichao Song	Peking University	

* Continue 1:

Num.	Name	Institution	Email
20	Isao Tanihata	Beihang University	
21	Jianhua Gao	Shandong University	
22	Jianping Chen	JLAB	
23	Jie Meng	Peking University	
24	Jinchuan Wang	Institute of Modern Physics, CAS	
25	Jinfeng Liao	Indiana University	
26	Jinhui Chen	Shanghai Institute of Applied Physics, CAS	
27	Jun Xu	Shanghai Institute of Applied Physics, CAS	
28	Krzysztof Pomorski	Maria Curie Sklodowska University	
29	Li Yan	McGill University	
30	Lianyi He	Tsinghua University	
31	Liewen Chen	Shanghai Jiaotong University	
32	ManYee Betty Tsang	Michigan State University	
33	Mei Huang	Institute of High Energy Physics, CAS	
34	Ming Shao	University of Science and Technology of China	
35	Nu Xu	Institute of Modern Physics, CAS	
36	Pengfei Zhuang	Tsinghua University	
37	Renxin Xu	Peking University	
38	Shangui Zhou	Institute of Theoretical Physics, CAS	
39	Shengqin Feng	Three Gorges University	
40	Sherry Yennello	Texas A&M University	

* Continue 2:

Num.	Name	Institution	Email
41	Takehiko Saito	GSI Helmholtz Centre for Heavy Ion Research	
42	Toshitaka Kajino	Beihang University	
43	Weiping Liu	China Institute of Atomic Energy	
44	Xiaofeng Luo	Central China Normal University	
45	Xiaoyuan Li	Institute of Theoretical Physics, CAS	
46	Xuguang Huang	Fudan University	
47	Xurong Chen	Institute of Modern Physics, CAS	
48	Yanan Luo	Nankai University	
49	Yidan Song	Henan Normal University	
50	Yin Yi	Massachusetts Institute of Technology	
51	Yingxun Zhang	China Institute of Atomic Energy	
52	Yuxin Liu	Peking University	
53	Zhaoqing Feng	Institute of Modern Physics, CAS	
54	Zhe Xu	Tsinghua University	
55	Zhigang Xiao	Tsinghua University	
56	Zhihong Ye	Argonne National Lab	
57	Zuotang Liang	Shandong University	
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