







The 12th Workshop on Quantum Many-Body Computation

Conference Manual

Supported by Peng Huanwu Center for Fundamental Theory (Xi'an), NSFC April 11-15, 2024, Xi'an, Shaaxi Province, China

Workshop Venue & Travel

Workshop venue

Xi'an Paradise Resort (西安曲江惠宾苑宾馆,千人宴会厅 A 段)

Address

No. 388 South Section of Yanta South Road, Xi'an, Shaanxi Province, China (陕西省西安市雁 塔区雁塔南路南段 388 号)

Local Travel Map to workshop venue

(1) Xi'an Xianyang International Airport (西安咸阳国际机场):~44 km

By taxi: ~70 min & RMB 140

By subway: line 14 + line 4 to QuJiangChiXi Station (曲江池西站),~40 min

By bus: Shuttle Bus between the airport and QuJiang, ~100 min

(2) Xi'an Railway Station (西安火车站): ~12 km

By taxi: ~40 min & RMB 30

By subway: line 4 to QuJiangChiXi Station (曲江池西站),~40 min

By bus: Bus 500, ~50 min

(3) Xi'an North Railway Station (西安北站): ~22 km

By taxi: ~60 min & RMB 70

By subway: line 4 to QuJiangChiXi Station (曲江池西站),~110 min

By bus: Bus 609, ~120 min



Table of Contents

Introduction to the Workshop	- 1
Information of QMBC2024	- 2
Invited Lecturers & Speakers	- 3
Program	5
Posters	9

Introduction to the workshop

Quantum many-body computation has emerged as a pivotal area of research within condensed matter physics. It incorporates diverse computational strategies to address the exponential wall challenge inherent in highly entangled many-body quantum systems. The field encompasses a large number of intriguing phenomena, such as high-temperature superconductivity and quantum magnetism. Recently, it has increasingly intersected with areas like ultracold atomic gas, machine learning, and quantum computation.

This workshop is designed to provide young researchers and graduate students with comprehensive tutorials on both foundational techniques and recent innovations in quantum many-body computation. It also aims to foster interaction within the community. QMBC-2024 will build on the substantial groundwork laid by previous workshops, with a focus on the latest developments in the field. The topics covered will include exact diagonalization, quantum Monte Carlo, density matrix renormalization group, tensor networks, machine learning, and more.

Previous workshops

2011: Chongqing University
2012: Lanzhou University
2013: Sun Yat-Sen University
2014: Hubei University
2015: Shanghai Jiao Tong University
2016: Beijing Computational Science Research Center
2017: University of Chinese Academy of Sciences
2018: Zhejiang University
2019: Renmin University of China
2020-2021: Skipped due to COVID19
2022: IOP/Shanghai Jiao Tong University
2023: MinJiang University

Information of QMBC2024

Schedule

2024.04.11	Onsite registration (13:00~21:00)
2024.04.12	Tutorial Lectures
2024.04.13~14	Research talks
2024.04.15	Departure

Workshop Venue

Xi'an Paradise Resort (西安曲江惠宾苑宾馆,千人宴会厅 A 段) No. 388 South Section of Yanta South Road, Xi'an, Shaanxi Province, China (陕西省西安市雁 塔区雁塔南路南段 388 号)

Accommodation

Xi'an Paradise Resort (西安曲江惠宾苑宾馆) Orange Hotel around Grand Tang Mall (桔子酒店-大唐不夜城店)

Advisory Committee

Hai-Qing Lin (Zhejiang University)Zhong-Yi Lu (Renmin University of China)Gang Su (University of Chinese Academy of Sciences)Xiaoqun Wang (Zhejiang University)Tao Xiang (Institute of Physics, Chinese Academy of Sciences)

Coordinators

Yuan-Yao He (Northwest University) Zi-Xiang Li (Institute of Physics, Chinese Academy of Sciences) Shuo Yang (Tsinghua University) Xue-Feng Zhang (Chongqing University)

Local Organizers

Wen-Li Yang (Northwest University) Junjie Liu (Northwest University) Yuan-Yao He (Northwest University) Xiao-Hui Wang (Northwest University) Junhui Zheng (Northwest University)

Workshop Secretary

Kun Zhang (Northwest University)EXiucong Xue (Northwest University)

Email: kunzhang@nwu.edu.cn

Invited Lecturers (listed in alphabetical order)

Shiwei Zhang, CCQ, Flatiron Institute Dao-Xin Yao, Sun Yat-Sen University

Invited Speakers (listed in alphabetical order)

Fakher Assaad, Universität Würzburg Zi Cai, Shanghai Jiao Tong University Bin-Bin Chen, The University of Hong Kong Chen Cheng, Lanzhou University Kun Chen, Institute of Theoretical Physics, Chinese Academy of Sciences Youjin Deng, University of Science and Technology of China Sebastian Eggert, University of Kaiserslautern-Landau Wenan Guo, Beijing Normal University Jiangping Hu, Institute of Physics, Chinese Academy of Sciences Shi-Jie Hu, Beijing Computational Science Research Center Yi-Fan Jiang, ShanghaiTech University Wei Li, Institute of Theoretical Physics, Chinese Academy of Sciences Haijun Liao, Institute of Physics, Chinese Academy of Sciences Yang Liu, Institute of Physics, Chinese Academy of Sciences Zhao Liu, Zhejiang University Yi Lu, Nanjing University Ian McCulloch, National Tsing Hua University Zi Yang Meng, The University of Hong Kong Mingpu Qin, Shanghai Jiao Tong University Shi-Ju Ran, Capital Normal University Weiluo Ren, ByteDance Research Anders W. Sandvik, Boston University Xiao Yan Xu, Shanghai Jiao Tong University Rong Yu, Renmin University of China Yuan Wan, Institute of Physics, Chinese Academy of Sciences Yilin Wang, University of Science and Technology of China

Zizhu Wang, University of Electronic Science and Technology of China Zheng-Yu Weng, Tsinghua University Guang-Ming Zhang, Tsinghua University Jin Zhang, Chongqing University Junhui Zheng, Northwest University

Program

Thursday, 11 April 2024

Registration at the hotel lobby, 13:00-20:00

Friday, 12	April 2024		
Registration at the hotel lobby, 08:30-21:00			
Tutorial Lectures (each with a 20min break), Chair: Hui Shao, Zheng Yan			
10.00 11.50	Shiwei Zhang	Auxiliary-field Quantum Monte Carlo	
10.00-11.30	(CCQ, Flatiron Institute)	algorithms for correlated fermion systems	
11:50-14:00	Lunch		
14:00-15:50	Dao-Xin Yao	Multi-orbital models and superconducting	
	(Sun Yat-Sen University)	properties of La ₃ Ni ₂ O ₇ and La ₄ Ni ₃ O ₁₀	
18:00	Dinner		

Saturday, 1	3 April 2024		
Registration	at the hotel lobby, 08:00-08:	50	
08:45-09:00	Welcome and op	ening by Tao Xiang & Wen-Li Yang	
Session 1	3 t	alks, Chair: Gang Su	
09:00-09:20	Fakher Assaad (Universität Würzburg)	Auxiliary-field quantum Monte Carlo for frustrated spin systems	
09:20-09:40	Anders W. Sandvik (Boston University)	SO(5) Multicriticality at the transition from antiferromagnet to valence-bond solid in two dimensions	
09:40-10:00	Zheng-Yu Weng (Tsinghua University)	Mott Physics at Doping: Elephant in the Living Room	
10:00-10:10		Photo	
10:10-10:30	Tea Break		
Session 2	4 talks, Chair: Hong-Gang Luo		
10:30-10:50	Sebastian Eggert (University of Kaiserslautern- Landau)	Time-Periodic driving near resonance: Simulations and calculations of many-body states	
10:50-11:10	Wenan Guo (Beijing Normal University)	Improved scaling of the entanglement entropy and its applications	
11:10-11:30	Rong Yu (Renmin University of China)	Field-controlled multicritical behavior and emergent universality in fully frustrated quantum magnets	

11:30-11:50	Wei Li (Institute of Theoretical Physics, CAS)	Dual Magnon-Roton Excitations of Spin Supersolid on a Cobalt-based Triangular Lattice
11:50-13:30		Lunch
13:30-14:30		Poster Session
Session 3	4 talk	s, Chair: Tian-Xing Ma
14:30-14:50	Jiangping Hu (Institute of Physics, CAS)	Loop Current States in Correlated Electron Systems
14:50-15:10	Mingpu Qin (Shanghai Jiao Tong University)	DMRG results of the minimum model for La3Ni2O7 and the charge order in infinite-layer nickelate
15:10-15:30	Yilin Wang (University of Science and Technology of China)	Heavy-fermions and lattice dynamics in frustrated Hund's metal with portions of incipient flat-bands
15:30-15:50	Yi-Fan Jiang (ShanghaiTech University)	Pair density wave superconductivity: a microscopic model in two dimensions
15:50-16:10		Tea Break
Session 4	4 ta	alks, Chair: Lei Wang
16:10-16:30	Zi Cai (Shanghai Jiao Tong University)	Quantum slush state in Rydberg atom arrays
16:30-16:50	Yuan Wan (Institute of Physics, CAS)	Time-domain interferometry of electron weak localization through terahertz nonlinear optical response
16:50-17:10	Jin Zhang (Chongqing University)	Probing quantum floating phases in Rydberg atom arrays
17:10-17:30	Zhao Liu (Zhejiang University)	Fractional Chern Insulators in Twisted Double Bilayer Graphene
18:00		Dinner

Sunday, 14	Sunday, 14 April 2024				
Session 5	4 talks	s, Chair: Xiaoqun Wang			
09:00-09:20	Youjin Deng (University of Science and Technology of China)	Crossover and Néel phase transition in the three- dimensional fermionic Hubbard model: A Monte Carlo and cold-atom experiment study			
09:20-09:40	Zi Yang Meng (The University of Hong Kong)	Entanglement entropy at quantum and deconfined quantum critical points			
09:40-10:00	Xiao Yan Xu (Shanghai Jiao Tong University)	Entanglement of Many-Body Mixed States			

10:00-10:20(Institute of Theoretical Physics, CAS)the image of the second se	Image: Any-Electron Problem: From Fundamental Theory to Precise Predictions ea Break air: Zhong-Yi Lu le invariance and type-B Goldstone modes sor network approach to two-dimensional fully frustrated XY spin models excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
Physics, CAS)10:20-10:40Session 64 talks, Cl10:40-11:00Ian McCulloch (National Tsing Hua University)11:00-11:20Guang-Ming Zhang (Tsinghua University)11:20-11:40Haijun Liao (Institute of Physics, CAS)11:40-12:00Yi Lu (Nanjing University)11:30-14:30PosSession 74 talks, C (University of Electronic Science and Technology of China)14:50-15:10Weiluo Ren (ByteDance Research)15:10-15:30Chen Cheng (Lanzhou University)	Theory to Precise Predictions ea Break air: Zhong-Yi Lu le invariance and type-B Goldstone modes sor network approach to two-dimensional fully frustrated XY spin models excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
10:20-10:40 4 talks, Cl Session 6 4 talks, Cl 10:40-11:00 (National Tsing Hua University) Sca University) 11:00-11:20 Guang-Ming Zhang (Tsinghua University) Te 11:20-11:40 Haijun Liao (Institute of Physics, CAS) Spi 11:40-12:00 Yi Lu (Nanjing University) Dyn (Nanjing University) 12:00-13:30 Pos Session 7 4 talks, C Vari Science and Technology of China) Vari Science Research) 14:50-15:10 Weiluo Ren (ByteDance Research) R (ByteDance Research) 15:10-15:30 Chen Cheng (Lanzhou University) Pro	air: Zhong-Yi Lu air: Approach to two-dimensional fully frustrated XY spin models excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
Session 64 talks, Cl10:40-11:00Ian McCulloch (National Tsing Hua University)Sca University)11:00-11:20Guang-Ming Zhang (Tsinghua University)Te (Tsinghua University)11:20-11:40Haijun Liao (Institute of Physics, CAS)Spi11:40-12:00Yi Lu (Nanjing University)Dyn (Nanjing University)12:00-13:30Te (University of Electronic Science and Technology of China)Pos14:30-14:50Weiluo Ren (ByteDance Research)R (Dyn (Lanzhou University)15:10-15:30Chen Cheng (Lanzhou University)ProSei Iu PanPers	air: Zhong-Yi Lu le invariance and type-B Goldstone modes sor network approach to two-dimensional fully frustrated XY spin models excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
Session 64 talks, Cl10:40-11:00Ian McCulloch (National Tsing Hua University)Sca University)11:00-11:20Guang-Ming Zhang (Tsinghua University)Te (Spi11:20-11:40Haijun Liao (Institute of Physics, CAS)Spi11:40-12:00Yi Lu (Nanjing University)Dyn (Nanjing University)12:00-13:30Te (University of Electronic Science and Technology of China)Vari Science Research)14:50-15:10Weiluo Ren (ByteDance Research)R (Chen Cheng (Lanzhou University)15:10-15:30Chen Cheng (Lanzhou University)Product Compared Sensity	air: Zhong-Yi Lu le invariance and type-B Goldstone modes sor network approach to two-dimensional fully frustrated XY spin models excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
Ian McCulloch (National Tsing Hua University)Sca Sca University)11:00-11:20Guang-Ming Zhang (Tsinghua University)Te Te (Tsinghua University)11:20-11:40Haijun Liao (Institute of Physics, CAS)Spi11:40-12:00Yi Lu (Nanjing University)Dyn (Nanjing University)12:00-13:30Te Session 7A talks, CSession 7Zizhu Wang (University of Electronic Science and Technology of China)Vari Science Research)14:50-15:10Weiluo Ren (ByteDance Research)R C15:10-15:30Chen Cheng (Lanzhou University)ProShi Lu PanPers	le invariance and type-B Goldstone modes sor network approach to two-dimensional fully frustrated XY spin models excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
10:40-11:00(National Tsing Hua University)Sci Sci University)11:00-11:20Guang-Ming Zhang (Tsinghua University)Te (Spi11:20-11:40Haijun Liao (Institute of Physics, CAS)Spi11:40-12:00Yi Lu (Nanjing University)Dyn (Nanjing University)12:00-13:30Te (University of Electronic Science and Technology of China)Pos14:30-14:50Weiluo Ren (ByteDance Research)R (Dyn (Lanzhou University)15:10-15:30Chen Cheng (Lanzhou University)Pro	le invariance and type-B Goldstone modes sor network approach to two-dimensional fully frustrated XY spin models excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
University)11:00-11:20Guang-Ming Zhang (Tsinghua University)11:20-11:40Haijun Liao (Institute of Physics, CAS)11:40-12:00Yi Lu (Nanjing University)12:00-13:30PostSession 74 talks, C14:30-14:30Vari Science and Technology of China)14:50-15:10Weiluo Ren (ByteDance Research)15:10-15:30Chen Cheng (Lanzhou University)Shi Lu PanPers	sor network approach to two-dimensional fully frustrated XY spin models excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
11:00-11:20Guang-Ming Zhang (Tsinghua University)Te11:20-11:40Haijun Liao (Institute of Physics, CAS)Spi11:40-12:00Yi Lu (Nanjing University)Dyn12:00-13:3013:30-14:30PosSession 74 talks, C14:30-14:50Zizhu Wang (University of Electronic Science and Technology of China)Vari Science Research)14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng (Lanzhou University)Pos	sor network approach to two-dimensional fully frustrated XY spin models excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
(Tsinghua Oniversity)11:20-11:40Haijun Liao (Institute of Physics, CAS)Spi11:40-12:00Yi Lu (Nanjing University)Dyi12:00-13:30Post13:30-14:30PostSession 74 talks, C(University of Electronic Science and Technology of China)Vari Science Research)14:50-15:10Weiluo Ren (ByteDance Research)R C15:10-15:30Chen Cheng (Lanzhou University)Product ComparedShi Lu PanPers	excitation spectra of the spin-1/2 Kagome Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
11:20-11:40Inalul LiaoSpin(Institute of Physics, CAS)Uistitute of Physics, CAS)Dyin11:40-12:00Yi Lu (Nanjing University)Dyin12:00-13:30Institute of Physics, CAS)Dyin13:30-14:30PoseSession 74 talks, C(University of Electronic Science and Technology of China)Varin14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng (Lanzhou University)Product ConstraintsShi Lu RanRem RemR	Heisenberg antiferromagnets amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
(Institute of Filystes, OFIS)11:40-12:00Yi Lu (Nanjing University)Dy:12:00-13:30Post13:30-14:30PostSession 74 talks, CI 4:30-14:50Zizhu Wang (University of Electronic Science and Technology of China)Vari Science Research)14:50-15:10Weiluo Ren (ByteDance Research)R co15:10-15:30Chen Cheng (Lanzhou University)Product Co	amical correlation functions from complex time evolution Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
11:40-12:00 (Nanjing University)Dynamic (Nanjing University)12:00-13:3013:30-14:3013:30-14:30PostSession 74 talks, C(University of Electronic Science and Technology of China)Vari Science Research)14:50-15:10Weiluo Ren (ByteDance Research)15:10-15:30Chen Cheng (Lanzhou University)Shi lu PanPerson	time evolution Lunch ter Session tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
12:00-13:30Post13:30-14:30PostSession 74 talks, C14:30-14:50Zizhu Wang (University of Electronic Science and Technology of China)Vari14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng (Lanzhou University)Pro- coShi Ju PanPerson	Lunch ter Session hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
13:30-14:30PostSession 74 talks, C14:30-14:50Zizhu Wang (University of Electronic Science and Technology of China)Vari14:50-15:10Weiluo Ren 	tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
Session 74 talks, 014:30-14:50Zizhu Wang (University of Electronic Science and Technology of China)Vari14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng (Lanzhou University)Pro coShi Ju PanPerson	hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
Session 74 talks, 014:30-14:50Zizhu Wang (University of Electronic Science and Technology of China)Vari14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng (Lanzhou University)Pro- co	hair: Shuo Yang tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
Jockston /Zizhu Wang (University of Electronic Science and Technology of China)Vari14:30-14:50(University of Electronic Science and Technology of China)Vari14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng (Lanzhou University)Pro- co	tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
Lizing Wang (University of Electronic Science and Technology of China)Vari14:30-14:50(University of Electronic Science and Technology of China)Vari14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng 	tional optimization for quantum tasks using generative models cent Advances in Neural Network-Based	
14:30-14:50Conversity of Electionic Science and Technology of China)Value China)14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng (Lanzhou University)Pro- co	generative models	
China)14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng (Lanzhou University)Pro- coShi lu PanPers	cent Advances in Neural Network-Based	
14:50-15:10Weiluo Ren (ByteDance Research)R15:10-15:30Chen Cheng (Lanzhou University)Pro co	cent Advances in Neural Network-Based	
14.30-13.10(ByteDance Research)15:10-15:30Chen Cheng (Lanzhou University)Shi Ju PanPerson Person		
15:10-15:30Chen Cheng (Lanzhou University)Pro- coShi Ju PanPers	Quantum Monte Carlo	
15:10-15:30Chern Cherng (Lanzhou University)coShi Ju PanPers	bing phase transitions with correlations in	
Shi lu Ban Pers	figuration space: a Monte Carlo study on	
Shi Ju Dan Pers	lattice models	
15:30-15:50 Sin-5u Kan	stent ballistic entanglement spreading with	
(Capital Normal University)	optimal control in quantum spin chains	
15:50-16:10	Tea Break	
Session 8 4 talks, C	air: Yinghai Wu	
Shi-Jie Hu Den	ity-matrix renormalization group algorithm	
16:10-16:30 (Beijing Computational	for non-Hermitian systems	
Science Research Center)		
16:30-16:50 Junhui Zheng Ano	nalous Floquet topological insulators under	
(Northwest University)	optical speckle potential $\frac{1}{2}$	
Bin-Bin Chen Phas	25 of (2+1)D SO(5) non-linear sigma model	
10.50-17.10 (The University of Hong WI Kong Kong	topological term on sphere multicritical	
i i i i i i i i i i i i i i i i i i i	h topological term on sphere: multicritical	
E E	h topological term on sphere: multicritical point and disorder phase	
17:10-17:30 Yang Liu F	h topological term on sphere: multicritical point and disorder phase actional quantum hall effect, geometrical excitation, and matrix product state	
16:10-16:30 (Beijing Computational Science Research Center) 16:30-16:50 Junhui Zheng (Northwest University)	for non-Hermitian systems nalous Floquet topological insulators under optical speckle potential	

17:30-17:50	Closing remark by Hai-Qing Lin
18:00	Dinner

Monday, 15 April 2024

Departure

No.	Name	Affiliation	Poster Title
1	Xinvang Dong	AI for Science Institute,	Equivariant neural network for Green's
1	Alliyang Dolig	Beijing	functions of molecules and materials
2	Chao Zhang	Anhui Normal University	Light polarons with electron-phonon
	6	5	coupling
3	Yuan Gao	Beihang University	Magnetic Excitations of Spin Supersolid on a
	Van-Cheng		Scaling of disorder operator with tilted region
4	Wang	Beihang University	at quantum criticality
			Multifractality and prethermalization in the
5	Wen Chen	Beijing Computational	quasiperiodically kicked Aubry-André-
		Science Research Center	Harper model
6	lilu He	Beijing Computational	Ground state phase diagram of spin-3/2 J1-
0	5110 110	Science Research Center	J2-Dz chain
_	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Beijing Institute of	Simulating Noisy Variational Ouantum
7	Song Cheng	Mathematical Sciences and	Algorithms: A Polynomial Approach
		Applications	Watting transition in the transverse field
8	Kun Hu	Beijing Normal University	spin-1/2 XY model with boundary fields
			Anomalous Rotor Excitations on Site-Diluted
9	Liuyun Dao	Beijing Normal University	Square Lattice Spin-1/2 Heisenberg
	5		Antiferromagnets
			Phase diagram of a square lattice model of
10	Fan Zhang	Beijing Normal University	XY Spins with direction-dependent
			interactions
11	Qiaoni Chen	Beijing Normal University	Ferromagnetism and band structure of
12	Sibai I i	Reijing Normal University	
12	SIDELLI	Beijing Normai Oniversity	Charge Strine Manipulation of
13	Tianxing Ma	Beijing Normal University	Superconducting Pairing Symmetry
13 Hanxing Ma		Berjing Horman Oniversity	Transition
1.4	Ziiian Viana	Chongqing Normal	1-form symmetry and the selection rule of
14	Zijian Along	University	the plaquette valence bond solid phase
15	Yang Liu	East China Normal	Fisher Zeros on the Disorder Side of the
15	Tung Liu	University	Transverse Field Ising Chain
16	Songtai Lv	East China Normal	Many-body computing on Field
17	Vertin		Programmable Gate Arrays
1/	Y an Liu	Fudan University	IBD Chiral spin textures driven by emergent spin
18	Shuai Yang	Fudan University	orbit interaction: a numerical study
		Harbin Institute of	Possible spin-triplet pairing instability near
19	Xing-Can Liu	Technology	type-II van Hove singularities
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Scaling behaviors of long-range
20	Nati	Hebei Normal University	entanglement distribution in spin chains with
20	Na Li	Na Li Hebei Normai University	exponentially and power-law decaying
			interactions

# Posters

21	Di Han	Hebei Normal University	Fractional Chern insulator with Rydberg-
			Diagnosing Quantum Phases Using Long
22	Van Vui Dai	Hahai Namaal Haiyanaity	Banga Two aita Quantum Phases Using Long-
LL	I an-Kui Dai	Heber Normal University	Range Two-site Quantum Resource
	D		Benaviors
23	Pengcheng	Hefei National Laboratory	Many-Electron Field Theory Integrated with
	Hou		Al Tech Stack
24	Zhijie Fan	Heifei National Laboratory	I wo-dimensional X Y Ferromagnet Induced
	-	Unerhaue University of	by Long-range Interaction
25	Ying-Hai Wu	Fuaziong University of	Quantum Phase Transitions of Fractional
		Science and Technology	Quantum Han States
26	Zihang Li	Institute of Physics, Chinese	Deep generative model based variational free
		Academy of Sciences	energy approach to warm dense hydrogen
27	Xingyu Zhang	Institute of Physics, Chinese	2D excitation in formation by MPS method
		Academy of Sciences	on helix
28	Oi Zhang	Institute of Physics, Chinese	Solving vibrational Hamiltonians with neural
		Academy of Sciences	canonical transformation
29	Kang Wang	Institute of Physics, Chinese	Fractionalization Signatures in the Dynamics
	8	Academy of Sciences	of Quantum Spin Liquids
30	Pengfei Li	Insititule of Physics, Chinese	Correlated BCS wave function approach to
	8	Academy of Sciences	unconventional superconductors
		Insititule of Physics, Chinese	Shubnikov-deHaas effect in the Falicov-
31	Wei-Wei Yang	Academy of Sciences	Kimball model: strong correlation meets
		Treadenity of Sciences	quantum oscillation
32	Shan Dong	Institute of Semiconductors,	First-principles studies on two-dimensional
	Shun Dong	Chinese Academy of Science	excitonic insulators
		Institute of Theoretical	A High Performance Julia Package for
33	Qiaoyi Li	Physics, Chinese Academy	Matrix Product State Computations
		of Sciences	
		Institute of Theoretical	Thermal Tensor Network Approach for the
34	Ning Xi	Physics, Chinese Academy	NMR Spin Lattice Relaxation in Quantum
		of Sciences	Magnets
		Institute of Theoretical	
35	Enze Lv	Physics, Chinese Academy	TBD
		of Sciences	
36	Yun-Tong	Lanzhou University	Identifying the ground-state phases by spin-
50	Yang		patterns in the Shastry-Sutherland model
37	Yongfeng	Lanzhou University	Edge states induced by quasi-periodic
57	Yang		structures in 1D t-J model
			The correlation between Monte Carlo
38	Wenyu Su	Lanzhou University	sampling configurations was used to study
			phase transitions
			Orbital-designed flat-band model and
39	Leiqiang Li	Minjiang University	realization of superconductivity in three-
			dimensional materials
40	Zhiling Wei	Nanjing University	TBD
41	Zhengzhong Du	Nanjing University	TBD
L	~ ~	Naniing University of	Unconventional many-body phase transitions
42	Gaoyong Sun	Aeronautics and Astronautics	in a non-Hermitian Ising chain

43         Joss Cosonic         (Australia)         Theories           44         Fang-mei Yang         Northwest Normal University         Resonator-qutrits quantum battery           45         Hanghui Chen New York University         Anelectronic origin of charge order in infinite-layer nickelates           46         Yubing Qian         Peking University         Electric polarization and interatomic force from neural network-based quantum Monte Carlo           47         Weizhong Fu         Peking University         Diffusion Monte Carlo and Variance Extrapolation Method with Neural Network Ansatz           48         Tonghuan Jiang         Peking University         Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo           49         Lei Geng         Peking University         Quantum slush state in Rydberg atom arrays University           50         Tengzhou Zhang         Shanghai Jiao Tong University         Quantum slush state in Rydberg atom arrays behavior of quantum geometry           51         Guo         University         Delayed updates in Determinantal Quantum Monte Carlo method           53         Jiale Huang         Shanghai Jiao Tong University         Delayed updates in Determinantal Quantum Monte Carlo method           54         Fo-Hong Wang         Shanghai Jiao Tong University         Parent Hamiltonian for Fully-augmented Matrix Product States           55	43Jesse Osbol44Fang-me Yang45Hanghui Ch46Yubing Qi47Weizhong48Tonghuan Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huan54Fo-Hong Wang55Xiangjian Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhou	Jesse Osborne	University of Queensland	Quantum Simulators for Lattice Gauge
44         Fang-mei Yang         Northwest Normal University         Resonator-qutrits quantum battery           45         Hanghui Chen         NYU Shanghai and NewYork University         Anelectronic origin of charge order in infinite-layer nickelates           46         Yubing Qian         Peking University         Electric polarization and interatomic force from neural network-based quantum Monte Carlo           47         Weizhong Fu         Peking University         Electric polarization and Variance Extrapolation Method with Neural Network Ansatz           48         Tonghuan Jiang         Peking University         Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo           49         Lei Geng         Peking University         Quantum slush state in Rydberg atom arrays University           51         Zheng-Xin         Shanghai Jiao Tong Guo         University         Delayed updates in Determinantal Quantum Monte Carlo method           52         Fanjie Sun         Shanghai Jiao Tong Guo         University         Delayed updates in Determinantal Quantum Monte Carlo method           53         Jiale Huang         Shanghai Jiao Tong Gui         University         Delayed updates in Determinantal Quantum Monte Carlo method           54         Fo-Hong Wang         Shanghai Jiao Tong University         Delayed updates in Determinantal Quantum Monte Carlo method           55         Xiangjia	44Fang-me Yang45Hanghui Ch46Yubing Qi47Weizhong48Tonghuar Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho	Jesse Osborne	(Australia)	Theories
44       Yang       University       Resonation quarks quarked and the barlet y         45       Hanghui Chen       NYU Shanghai and NewYork University       Anelectronic origin of charge order in infinite-layer nickelates         46       Yubing Qian       Peking University       Electric polarization and interatomic force from neural network-based quantum Monte Carlo         47       Weizhong Fu       Peking University       Diffusion Monte Carlo and Variance Extrapolation Method with Neural Network Ansatz         48       Tonghuan Jiang       Peking University       Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo         49       Lei Geng       Peking University       Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo         50       Tengzhou Zhang       Shanghai Jiao Tong University       Quantum slush state in Rydberg atom arrays         51       Zheng-Xin       Shanghai Jiao Tong Guo       Delayed updates in Determinantal Quantum Monte Carlo method         52       Fanjie Sun       Shanghai Jiao Tong University       Delayed updates in Determinantal Quantum Monte Carlo method         54       Fo-Hong Vang       Shanghai Jiao Tong University       On the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg         55       Xiangjian       Shanghai Jiao Tong University       Datt Actroredod         55<	44Yang45Hanghui Ch46Yubing Qi47Weizhong I48Tonghuan49Lei Geng50Tengzhou51Zheng-Xi52Fanjie Su53Jiale Huan54Fo-Hong55Xiangjian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho	Fang-mei	Northwest Normal	Resonator autrits quantum battery
45       Hanghui Chen       NYU Shanghai and NewYork University       Anelectronic origin of charge order in infinite-layer nickelates         46       Yubing Qian       Peking University       Electric polarization and interatomic force from neural network-based quantum Monte Carlo         47       Weizhong Fu       Peking University       Diffusion Monte Carlo and Variance Extrapolation Method with Neural Network Ansatz         48       Tonghuan Jiang       Peking University       Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo         49       Lei Geng       Peking University       Quantum slush state in Rydberg atom arrays University         50       Tengzhou Zhang       Shanghai Jiao Tong University       Quantum slush state in Rydberg atom arrays University         51       Zheng-Xin Guo       Shanghai Jiao Tong University       Far-from-equilibrium universal critical behavior of quantum geometry         52       Fanjie Sun       Shanghai Jiao Tong University       On the Magnetization of the 120°-order of the Spin-1/2 Triangular Latice Heisenberg Model: a DMRG revisit         54       Fo-Hong Vang       Shanghai Jiao Tong University       Parent Hamiltonian for Fully-augmented Model: a DMRG revisit         55       Xiangjian       Shanghai Jiao Tong University       Parent Hamiltonian for Fully-augmented Model: a DMRG revisit         56       Yang Shen       University       Matrix Produ	<ul> <li>45 Hanghui Ch</li> <li>46 Yubing Qi</li> <li>47 Weizhong</li> <li>48 Tonghuat Jiang</li> <li>49 Lei Geng</li> <li>50 Tengzhou Zhang</li> <li>51 Zheng-Xi Guo</li> <li>52 Fanjie Su</li> <li>53 Jiale Huar</li> <li>54 Fo-Hong Wang</li> <li>55 Xiangjiat Qian</li> <li>56 Yang She</li> <li>57 Gui-Xin L</li> <li>58 Zhi Xu</li> <li>59 Chong Ho</li> </ul>	Yang	University	Resolution-quints quantum battery
45         Hangmu Chen         NewYork University         infinite-layer nickelates           46         Yubing Qian         Peking University         Electric polarization and interatomic force from neural network-based quantum Monte Carlo           47         Weizhong Fu         Peking University         Diffusion Monte Carlo and Variance           48         Tonghuan Jiang         Peking University         Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo           49         Lei Geng         Peking University         Accurate many-body wavefunctions from full configuration intrace Studied by non-equilibrium Green's function           50         Tengzhou         Shanghai Jiao Tong         Quantum slush state in Rydberg atom arrays           51         Zheng-Xin         Shanghai Jiao Tong         Delayed updates in Determinantal Quantum           53         Jiale Huang         Shanghai Jiao Tong         Delayed updates in Determinantal Quantum           54         Fo-Hong         Shanghai Jiao Tong         On the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg           55         Xiangjian         Shanghai Jiao Tong         On the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg           56         Yang Shan         Shanghai Jiao Tong         Drataglienent Renyi Negativity of Interacting Formions from Quantum Monte Carlo <t< td=""><td>45Hanghui Ch46Yubing Qi47Weizhong48TonghuanJiang49Lei Geng50Tengzhou51Zheng-XiGuo52Fanjie Su53Jiale Huan54Fo-Hong55Xiangjian26Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhou</td><td>Hanghui Chan</td><td>NYU Shanghai and</td><td>Anelectronic origin of charge order in</td></t<>	45Hanghui Ch46Yubing Qi47Weizhong48TonghuanJiang49Lei Geng50Tengzhou51Zheng-XiGuo52Fanjie Su53Jiale Huan54Fo-Hong55Xiangjian26Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhou	Hanghui Chan	NYU Shanghai and	Anelectronic origin of charge order in
46         Yubing Qian         Peking University         Electric polarization and interatomic force from neural network-based quantum Monte Carlo           47         Weizhong Fu         Peking University         Diffusion Monte Carlo and Variance           47         Weizhong Fu         Peking University         Diffusion Monte Carlo and Variance           48         Tonghuan Jiang         Peking University         Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo           49         Lei Geng         Peking University         Anomalous photo induced band renormalization in Ta2NiSe5 studied by non-cequilibrium Green's function           50         Tengzhou         Shanghai Jiao Tong University         Quantum slush state in Rydberg atom arrays           51         Zheng-Xin         Shanghai Jiao Tong University         Delayed updates in Determinantal Quantum from the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit           52         Fanjie Sun         Shanghai Jiao Tong University         Delayed updates in Determinantal Quantum Monte Carlo method           53         Jiale Huang         Shanghai Jiao Tong University         Entanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo guantum geativity of Interacting Fermions from Quantum Monte Carlo           54         Fo-Hong Qian         Shanghai Jiao Tong University         Entanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo	46Yubing Qi47Weizhong48Tonghuar Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho	Halighui Cheli	NewYork University	infinite-layer nickelates
46       Yubing Qian       Peking University       from neural network-based quantum Monte Carlo and Variance         47       Weizhong Fu       Peking University       Diffusion Monte Carlo and Variance         48       Tonghuan Jiang       Peking University       Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo         49       Lei Geng       Peking University       Accurate many-body wavefunctions from full configuration interactions from cequilibrium Green's function         50       Tengzhou       Shanghai Jiao Tong       Quantum slush state in Rydberg atom arrays         51       Zheng-Xin       Shanghai Jiao Tong       Delayed updates in Determinantal Quantum         52       Fanjie Sun       Shanghai Jiao Tong       Delayed updates in Determinantal Quantum         53       Jiale Huang       Shanghai Jiao Tong       Delayed updates in Determinantal Quantum         54       Fo-Hong       Shanghai Jiao Tong       University       Monte Carlo method         55       Xiangjian       Shanghai Jiao Tong       University       Monte Carlo method         55       Xiangjian       Shanghai Jiao Tong       Delayed updates in Determinantal Quantum         54       Fo-Hong       Shanghai Jiao Tong       Monte Carlo method         55       Xiangjian       Shanghai Jiao Tong	46Yubing Qi47Weizhong48Tonghuar Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho			Electric polarization and interatomic force
47         Weizhong Fu         Peking University         Diffusion Monte Carlo and Variance Extrapolation Motte Carlo and Variance Extrapolation Motte Carlo and Variance Extrapolation Motte Carlo motto wavefunctions from full configuration interaction quantum Monte Carlo           48         Tonghuan Jiang         Peking University         Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo           49         Lei Geng         Peking University         Accurate many-body wavefunctions from full configuration interaction quantum Monte Carlo           50         Tengzhou Zhang         Shanghai Jiao Tong University         Quantum slush state in Rydberg atom arrays           51         Guo         University         Far-from-equilibrium universal critical behavior of quantum geometry           52         Fanjie Sun         Shanghai Jiao Tong University         Delayed updates in Determinantal Quantum Monte Carlo method           53         Jiale Huang         Shanghai Jiao Tong University         On the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit           54         Fo-Hong Wang         Shanghai Jiao Tong University         Entanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations           55         Xiangjian         Shanghai Jiao Tong University         The ground state of electron-doped t-t'-J model on cylinders           56         Yang Shen         Shanghai Jiao Tong Univers	47Weizhong48Tonghuar Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho	Yubing Qian	Peking University	from neural network-based quantum Monte
47Weizhong FuPeking UniversityDiffusion Monte Carlo and Variance Extrapolation Method with Neural Network Ansatz48Tonghuan JiangPeking UniversityAccurate many-body wavefunctions from full configuration interaction quantum Monte Carlo49Lei GengPeking UniversityAccurate many-body wavefunctions from full configuration interaction quantum Monte Carlo50Tengzhou ZhangShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays51Zheng-Xin GuoShanghai Jiao Tong UniversityFar-from-equilibrium universal critical behavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States57Gui-Xin LiuShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States57Gui-Xin LiuShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders58Zhi XuShangha	47Weizhong48Tonghuar Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho	_		Carlo
47Weizhong FuPeking UniversityExtrapolation Method with Neural Network Ansatz48Tonghuan JiangPeking UniversityAccurate many-body wavefunctions from full configuration interaction quantum Monte Carlo49Lei GengPeking UniversityAnomalous photo induced band renormalization in Ta2NiSe5 studied by non- equilibrium Green's function50Tengzhou ZhangShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays51Zheng-Xin Guo UniversityShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays52Fanjie Sun UniversityShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale Huang WangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang Shen UniversityThe ground state of electron-doped t=t'-J model on cylinders57Gui-Xin Liu Shanghai Jiao Tong UniversityThe ground state of electron-doped t=t'-J model on cylinders58Zhi XuShanghai Jiao Tong UniversityThe ground state of electron-doped t=t'-J model on cylinders58ZhangShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States57GuianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States </td <td>47Weizhong48Tonghuar Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho</td> <td></td> <td></td> <td>Diffusion Monte Carlo and Variance</td>	47Weizhong48Tonghuar Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho			Diffusion Monte Carlo and Variance
Ansatz48Tonghuan JiangPeking UniversityAccurate many-body wavefunctions from full configuration interaction quantum Monte Carlo49Lei GengPeking UniversityAnomalous photo induced band renormalization in Ta2NiSe5 studied by non- equilibrium Green's function50Tengzhou ZhangShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays51Zheng-Xin GuoShanghai Jiao Tong UniversityPer-from-equilibrium green's function52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method54Fo-Hong WangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenUniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States57Gui-Xin LiuShanghai Jiao Tong UniversityParent Hamiltonian for Fully	48Tonghuar Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho	Weizhong Fu	Peking University	Extrapolation Method with Neural Network
48Tonghuan JiangPeking UniversityAccurate many-body wavefunctions from full configuration interaction quantum Monte Carlo49Lei GengPeking UniversityAnomalous photo induced band renormalization in Ta2NiSe5 studied by non- equilibrium Green's function50Tengzhou Zhang UniversityShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays51Zheng-Xin GuoShanghai Jiao Tong UniversityFar-from-equilibrium universal critical behavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Mattat Product States56Yang Shen UniversityUniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and on-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of Southern University of Or southern University of Or southe	48Tonghuar Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho			Ansatz
48       Formation of the second	48Folightan Jiang49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjian Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhai	Tonghuan		Accurate many-body wavefunctions from full
AnnugCarlo49Lei GengPeking UniversityAnomalous photo induced band renormalization in Ta2NiSe5 studied by non- equilibrium Green's function50Tengzhou ZhangShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays51Zheng-Xin GuoShanghai Jiao Tong UniversityFar-from-equilibrium universal critical behavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghai Tech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of to the there they band non- Hermitian systemSuperconductivity of TBD	49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjian Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhoi	Tongnuan	Peking University	configuration interaction quantum Monte
49Lei GengPeking UniversityAnomalous photo induced band renormalization in Ta2NiSe5 studied by non- equilibrium Green's function50Tengzhou ZhangShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays51Zheng-Xin GuoShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays behavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States57Gui-Xin LiuShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States57Gui-Xin LiuShanghai Jiao Tong UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on cylinders58Zhi XuShanghai Tech UniversityGuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on del Bulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system59Chong HouSouthern University of Augment Unive	49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhoi	Jiang		Carlo
49Lei Geng TengzhouPeking University Shanghai Jiao Tong Universityrenormalization in Ta2NiSe5 studied by non- equilibrium Green's function50Tengzhou ZhangShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays51Zheng-Xin GuoShanghai Jiao Tong UniversityFar-from-equilibrium universal critical behavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders58Zhi XuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders59Chong HouSoutheast University of Southern University of Chong HouSouthern University of Southern University of TBD	49Lei Geng50Tengzhou Zhang51Zheng-Xi Guo51Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhay			Anomalous photo induced band
50Tengzhou ZhangShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays51Zheng-Xin GuoShanghai Jiao Tong UniversityFar-from-equilibrium universal critical behavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method54Fo-Hong WangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghai Tech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSouthern University of Southern University of Chong HouSouthern University of Southern University of Chong Hou60Pan ZhouSouthern University of Chong HouSouthern University of Chong HouTB	50Tengzhou Zhang51Zheng-Xi Guo51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjian Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhoi	Lei Geng	Peking University	renormalization in Ta2NiSe5 studied by non-
50Tengzhou ZhangShanghai Jiao Tong UniversityQuantum slush state in Rydberg atom arrays51Zheng-Xin GuoShanghai Jiao Tong UniversityFar-from-equilibrium universal critical behavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States57Gui-Xin LiuShanghai Tech UniversityModel on cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of Southern University of to internet in the internet	50Tengzhou Zhang51Zheng-Xi Guo51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjian Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhoi			equilibrium Green's function
50ZhangUniversityQuantum state in Rydeerg atom analys51Zheng-Xin GuoShanghai Jiao Tong UniversityFar-from-equilibrium universal critical behavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin Liu Shanghai Tech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of Chong HouSoutheast University of Context of the system60Pan ZhouSouthern University of Context of the systemTBD	50Zhang51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zhoi	Tengzhou	Shanghai Jiao Tong	Quantum slush state in Rydberg atom arrays
51Zheng-Xin GuoShanghai Jiao Tong UniversityFar-from-equilibrium universal critical behavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of Other Hou Inversity of Other Hou Inversity of Other Hou Inversity ofTBD	51Zheng-Xi Guo52Fanjie Su53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhay	Zhang	University	Quantum siusii state în Rydoerg atom arrays
51GuoUniversitybehavior of quantum geometry52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States57Gui-Xin LiuShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghai Jiao Tong UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of count with the tot	51Guo52Fanjie Su53Jiale Huar53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhoi	Zheng-Xin	Shanghai Jiao Tong	Far-from-equilibrium universal critical
52Fanjie SunShanghai Jiao Tong UniversityDelayed updates in Determinantal Quantum Monte Carlo method53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t=t'-J model on cylinders57Gui-Xin LiuShanghai Tech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghai Tech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutherst University of Other ArticleBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Other ArticleTBD	52Fanjie Su53Jiale Huar53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zhoi	Guo	University	behavior of quantum geometry
52Panje SunUniversityMonte Carlo method53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutherst University of Come HouBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Come HouTBD	52Fully out53Jiale Huar54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zhou	Fanije Sun	Shanghai Jiao Tong	Delayed updates in Determinantal Quantum
53Jiale HuangShanghai Jiao Tong UniversityOn the Magnetization of the 120°-order of the Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghai Tech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of Chong HouBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Comment and particle to the systemTBD	53Jiale Huar54Fo-Hong Wang54Fo-Hong Wang55Xiangjian Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zho	i unjio Bun	University	Monte Carlo method
53Jiale HuangDistriguing theor rong Universitythe Spin-1/2 Triangular Lattice Heisenberg Model: a DMRG revisit54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders56Yang ShenShanghai Tech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders57Gui-Xin LiuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of Chong HouBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Chong HouTBD	53Jiale Huar54Fo-Hong Wang54Fo-Hong Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zho		Shanghai Jiao Tong	On the Magnetization of the 120°-order of
54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutherast University of Southern University of Chong HouSouthern University of Southern University of Chong Hou60Pan ZhouSouthern University of Chong HouTBD	54Fo-Hong Wang55Xiangjian Qian55Yang She56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zhoi	Jiale Huang	University	the Spin-1/2 Triangular Lattice Heisenberg
54Fo-Hong WangShanghai Jiao Tong UniversityEntanglement Renyi Negativity of Interacting Fermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of Gui-Xin LiuBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Gui-Xin LiuTBD	54Fo-Hong Wang55Xiangjian Qian55Yang She56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zho			Model: a DMRG revisit
54WangUniversityFermions from Quantum Monte Carlo Simulations55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of O Pan ZhouSouthern University of O Pan ZhouTBD	54Wang55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zho	Fo-Hong	Shanghai Jiao Tong	Entanglement Renyi Negativity of Interacting
55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast University of Chong HouBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of CommunicationTBD	55Xiangjian Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zhay	Wang	University	Fermions from Quantum Monte Carlo
55Xiangjian QianShanghai Jiao Tong UniversityParent Hamiltonian for Fully-augmented Matrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t=t'=J model on cylinders56Yang ShenShanghai Tech UniversityThe ground state of electron-doped t=t'=J model on cylinders57Gui-Xin LiuShanghai Tech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghai Tech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast UniversityBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Content Line Line LineTBD	55Xiangjiar Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zhoi			Simulations
QianUniversityMatrix Product States56Yang ShenShanghai Jiao Tong UniversityThe ground state of electron-doped t-t'-J model on cylinders57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast UniversityBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Oniversity of OniversityTBD	Qian56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zhai	Xiangjian	Shanghai Jiao Tong	Parent Hamiltonian for Fully-augmented
56Yang ShenSnangnai Jiao Tong UniversityThe ground state of electron-doped t=t=J model on cylinders57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast UniversityBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Choine at the bandTBD	56Yang She57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zhay	Qian	University	Matrix Product States
57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast UniversityBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Chong HouTBD	57Gui-Xin L58Zhi Xu59Chong Ho60Pan Zhai	Yang Shen	Shanghai Jiao Tong	The ground state of electron-doped t-t-J
57Gui-Xin LiuShanghaiTech UniversityQuantum phase diagram of the extended Spin-3/2 Kitaev Heisenberg model on three- and four-leg cylinders58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast UniversityBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Choire a LT a bandTBD	57Gui-Xin L58Zhi Xu59Chong Ho60Pap Zhai		University	model on cylinders
57       Gui-Xin Liu       Shanghai Tech University       Spin-3/2 KitaeV Heisenberg model on three- and four-leg cylinders         58       Zhi Xu       Shanghai Tech University       Superconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model         59       Chong Hou       Southeast University       Bulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system         60       Pan Zhou       Southern University of content of the left of the	57 Gui-Xin L 58 Zhi Xu 59 Chong Ho			Quantum phase diagram of the extended
58Zhi XuShanghaiTech UniversitySuperconductivity enhancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast UniversityBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Content of the bandTBD	58 Zhi Xu 59 Chong Ho	Gui-Ain Liu	Shanghai I ech University	Spin-3/2 Kitaev Heisenberg model on three-
58Zhi XuShanghaiTech UniversitySuperconductivity ennancement and particle- hole asymmetry interplay with electron attraction in doped Hubbard model59Chong HouSoutheast UniversityBulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system60Pan ZhouSouthern University of Conterned to the standard standardTBD	58Zhi Xu59Chong Ho60Pan Zhai			Supervised and four-leg cylinders
58     Zhi Xu     Shanghai leen University     hole asymmetry interplay with electron attraction in doped Hubbard model       59     Chong Hou     Southeast University     Bulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system       60     Pan Zhou     Southern University of Choire attraction     TBD	58 Zhi Xu 59 Chong Ho	71 : V		Superconductivity enhancement and particle-
59     Chong Hou     Southeast University     Bulk-boundary correspondences for skin and edge modes in a general two-band non-Hermitian system       60     Pan Zhou     Southern University of Control of LTD bulk     TBD	59 Chong Ho	Zni Au	Shanghai Tech University	note asymmetry interplay with electron
59     Chong Hou     Southeast University     Bulk-boundary correspondences for skin and edge modes in a general two-band non- Hermitian system       60     Pan Zhou     Southern University of Control of the skin and edge modes in a general two-band non- Hermitian system	59 Chong Ho			Dully hour damy compared denotes for align and
59     Choig Hou     Southeast University     edge modes in a general two-band hon- Hermitian system       60     Pan Zhou     Southern University of Choice 177 band     TBD	60 Dan Zhay	Chang Hau	Southoost University	Buik-boundary correspondences for skill and
60     Pan Zhou     Southern University of       TBD	60 Dan Thai	Chong Hou	Southeast Oniversity	Harmitian system
60 Pan Zhou Guidelin Oniversity of TBD	60 Dan That		Southern University of	
Notence and Lechnology		Pan Zhou	Science and Technology	TBD
Southern University of Auviliary-Field Quantum Monte Carlo study			Southern University of	Auxiliary-Field Quantum Monte Carlo study
61 Yu-Feng Song Science and Technology of three-dimensional Hubbard model	61 Yu-Feng So	Yu-Feng Song	Science and Technology	of three-dimensional Hubbard model
Dhose diagram and critical behavior of			Serence and reenhology	Phase diagram and critical behavior of
F HASE HIAVIAH AND CHILLAL DEDAVIOU OF	62 Xinwei Ii	Xinwei Iia	Sun Yat-Sen University	Hubbard model on the square-hexagon-
62 Xinwei Jia Sun Yat-Sen University Hubbard model on the square-hexagon-				octagon lattice

63	Li-Mei Chen	Sun Yat-Sen University	Chiral spin liquid in a Z_3 Kitaev model
64	Meng-Yuan Li	Sun Yat-Sen University	Ahierarchy of long-range entanglement patterns
65	Zhi Zeng	Sun Yat-Sen University	Finite-time Scaling beyond the Kibble-Zurek Prerequitsite: Driven Critical Dynamics in Strongly Interacting Dirac Systems
66	Yin-Kai Yu	Sun Yat-Sen University	Preempting fermion sign problem: Unveiling quantum criticality through non-equilibrium dynamics
67	Wei-Yang Chen	Sun Yat-Sen University	TBD
68	Zenan Liu	Sun Yat-Sen University	TBD
69	Changzhi Zhao	Taiyuan University of Technology	First-order type of vortex lattice melting in the double-layered ice by the loop Monte Carlo method
70	Wanzhou Zhang	Taiyuan University of Technology	Emergent topological ordered phase for the Ising-XY Model revealed by cluster-updating Monte-Carlo method
71	Hongyu Lu	The University of Hong Kong	Nontrivial Interplay Between Electronic Liquid Crystal Order and Topological Order in Correlated Topological Flat Bands
72	Jiarui Zhao	The University of Hong Kong	Quantum Entanglement Entropy as a probe of novel quantum phase and phase transitions
73	YuanDa Liao	The University of Hong Kong	The Incremental Method for Calculating Entanglement Entropy
74	Xiu-cai Jiang	TongJi University	Site-selective insulating phase in a twisted bilayer Hubbard model
75	Hua-Ying Liu	TongJi University	The two-stage Kondo breakdown induced by electron doping in correlated multiband system
76	Miaomiao Li	TongJi University	FeSe 材料的第一性原理及模型计算
77	Liya Qiao	TongJi University	TBD
78	Zheng-Tao Xu	Tsinghua University	Global phase diagram of doped quantum spin liquid on the Kagome lattice
79	Pei-Yuan Zhao	Tsinghua University	Chebyshev pseudosite matrix product state approach for cluster perturbation theory
80	Shuo Yang	Tsinghua University	Locally Purified Density Operators: Simulation and Tomography
81	Yuchen Guo	Tsinghua University	Locally purified density operators for noisy quantum circuits
82	Xuan Zou	Tsinghua University	TBD
83	Junsen Wang	University of Chinese Academy of Sciences	Crossovers and Universal Scaling in Quantum Supercriticality
84	Yunlong Zang	University of Chinese Academy of Sciences	Detecting Quantum Anomalies in Open Systems
85	Dai-Wei Qu	University of Chinese Academy of Sciences	D-wave Superconductivity, Pseudogap, and the Phase Diagram of t-J Model at Finite Temperature
86	Xing-Zhou Qu	University of Chinese Academy of Sciences	Orbital selective and pressure dependent superconductivity in bilayer La3Ni2O7

87	Han Li	University of Chinese Academy of Sciences	Magnetocaloric Effect of Topological Excitations in Kitaev Magnets
88	Hao Zhang	University of Science and Technology of China	Competing phases and suppression of superconductivity in a hole-doped Hubbard model on the honeycomb lattice
89	Zhiyi Li	University of Science and Technology of China	TBD
90	Zhe Wang	Westlake University	Emerging edge long-range interactions at the (2+1)D-dimensional O(3) critical point
91	Xiang Li	Wuhan University	Trion states of attractive SU(3) ultracold fermions in optical lattices
92	Tian-Cheng Yi	Zhejiang Sci-Tech University	Two-dimensional polarized superfluids under the prism of the fermion sign problem
93	Ang Yang	Zhejiang University	Observation of many-body dynamical localization
94	Junlin Wang	Zhejiang University	The classical correspond of quantum many- body scar based on TDVP
95	Jun Zhan	Insititule of Physics, Chinese Academy of Sciences	Emergence of Loop Current Order in the spinless Kagome Hubbard model

# Special thanks to





# Acknowledgement

