

AQIS 2023 talk schedule

August 28 (Mon)									
08:00~09:00	Registration (8:50, Opening)								
09:00~10:30	Tutorial Marek Żukowski - <i>Quantum Entanglement, Bell's Theorem, Quantum Information Science</i>								
10:30~11:00	Break								
11:00~12:00	Long talks Minki Hhan, Takashi Yamakawa and Aaram Yun - <i>Quantum Complexity for Discrete Logarithms and Related Problems</i> Yukun Zhang, Yifei Huang, Jinzhao Sun, Dingshun Lv and Xiao Yuan - <i>Quantum Computing Quantum Monte Carlo</i>								
12:00~14:00	Lunch								
14:00~15:00	Regular talks								
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Break									
15:00~15:30	Invited talk Ryan Babbush (Google Quantum AI) - <i>Exponential quantum speedup in simulating coupled classical oscillators</i>								
16:30~18:30	Poster session I (P1) LIST : http://aqis-conf.org/2023/poster-session-i-aug-28/								

August 29 (Tue)								
08:00~09:00	Registration							
09:00~10:00	Invited Talk Youngseok Kim (IBM Research) - <i>Evidence for the utility of quantum computing before fault tolerance</i>							
10:00~10:30	Break							
10:30~12:00	Long talks Chengkai Zhu, Chenghong Zhu and Xin Wang - <i>Estimate distillable entanglement and quantum capacity by squeezing useless entanglement</i> Marco Fellous Asiani, Jing Hao Chai, Robert Whitney, Alexia Auffèves and Hui Khoon Ng - <i>Limitations and optimizations of quantum computing in the presence of resource constraints</i> Mir Alimuddin, Samgeeth Puliylil and Manik Banik - <i>Thermodynamic Signatures of Genuinely Multipartite Entanglement</i>							
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15:30~16:30	Invited talk Kostyantyn Kechedzhi (Google Quantum AI) - <i>Effective quantum volume, fidelity and computational cost of noisy quantum processing experiments</i>							
16:30~18:30	Poster session II (P2) LIST : http://aqis-conf.org/2023/poster-session-ii-aug-29/							

August 30 (Wed)										
09:00~10:00	<p style="text-align: center;">Invited Talk</p> <p>Francesco Petruccione (Stellenbosch University) - <i>Reflections on the Life of Göran Lindblad</i></p>									
10:00~10:30	Break									
10:30~11:50	Regular talks									
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12:00~18:00	Free time (Excursion)									

August 31 (Thu)	
09:00~10:00	Invited Talk Nana Liu (Shanghai Jiao Tong University) - <i>Quantum simulation of partial differential equations via Schrodingerisation</i>
10:00~10:30	Break
10:30~12:00	Long talks Xiao-Ming Zhang, Tongyang Li and Xiao Yuan - <i>Quantum State Preparation with Optimal Circuit Depth: Implementations and Applications</i> Giulio Chiribella, Fei Meng, Renner Renato and Man-Hong Yun - <i>The Nonequilibrium Cost of Accurate Information Processing</i> Honggi Jeon, Jiyong Kang, Jaeun Kim, Wonhyeong Choi, Kyunghye Kim and Taehyun Kim - <i>Experimental realization of entangled coherent states in a trapped ion system</i>
12:00~14:00	Lunch
14:00~15:00	Regular talks
	<i>Parallel session A</i>
	<i>Parallel session B</i>
	R4A Adam Wills, Ting-Chun Lin and Min-Hsiu Hsieh - <i>General Distance Balancing for Quantum Locally Testable Codes</i>
	R4B Yinfei Li, Sanjib Ghosh, Jiangwei Shang, Xiangdong Zhang and Qihua Xiong - <i>Unified direct parameter estimation via quantum reservoirs</i>
	R4 Nitica Sakharwade, Michal Studzinski, Michal Eckstein and Pawel Horodecki - <i>Two instances of random access code in the quantum regime</i>
	R4B Yoshifumi Nakata, Takaya Matsuura and Masato Koashi - <i>Constructing decoders for quantum information based on complementarity</i>
	R4A Shin Ho Choe and Robert Koenig - <i>Long-range data transmission in a fault-tolerant quantum bus architecture</i>
	R4B Ryuji Takagi, Hiroyasu Tajima and Mile Gu - <i>Universal sampling lower bounds for quantum error mitigation</i>
15:00~15:30	Break
15:30~17:30	Poster session III (P3) LIST : http://aqis-conf.org/2023/poster-session-iii-aug-31/
18 :30 ~	Banquet

September 1 (Fri)									
09:00~10:00	Invited Talk Michael Mills (Quantinuum) - <i>A Race Track Trapped-Ion Quantum Processor</i>								
10:00~10:30	Break								
10:30~12:00	Long talks Victoria Wright and Mate Farkas - <i>An invertible map between Bell non-local and contextuality scenarios</i> Xiao Yuan, Bartosz Regula, Ryuji Takagi and Mile Gu - <i>Virtual quantum resource distillation</i> Jessica Bavaresco, Mio Murao and Marco Túlio Quintino - <i>Unitary channel discrimination beyond group structures: Advantages of sequential and indefinite-causal-order strategies</i>								
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18:00	Closing								