Aug. 27

Student	Poster Number	Paper ID	Title	Authors
	1	1	Concatenated Steane code with single-flag syndrome checks	Balint Pato, Theerapat Tansuwannont and Kenneth R. Brown
	2	6	Adapative Quantum Optimized Centroid Initialization: Enhancing Cluster Analysis with Quantum Methods	Nicholas Allgood, Ajinkya Borle and Charles Nicholas
	3	7	Quantum error mitigation in the regime of high noise using deep neural network: Trotterized dynamics	Andrey Zhukov and Walter Pogosov
	4	8	Quantum graph-state resource optimization for precision measurement in noisy environments	Bin Ho Le
	5	9	The Quantum Zeno Monte Carlo: finding eigenstate properties by using the quantum zeno effect	Mancheon Han, Hyowon Park and Sangkook Choi
	6	10	Iso-entangled bases and joint measurements: Charting entanglement beyond isolated states	Jakub Czartowski, Flavio Del Santo, Karol Zyczkowski and Nicolas Gisin
✓	7	11	Precise Phase-error-rate analysis for quantum key distribution with phase postselection	Yao Zhou and Zhen-Qiang Yin
	8	12	Multi-player quantum data hiding by nonlocal quantum state ensembles	Donghoon Ha and Jeong San Kim
	9	19	Nearly-optimal quasienergy estimation and eigenstate preparation for time-periodic Hamiltonians	Kaoru Mizuta
	10	21	Direct calculation of molecular excitation energies using a quantum phase difference estimation algorithm	Kenji Sugisaki
	11	26	The gap persistence theorem for quantum multiparameter estimation	Lorcan Conlon, Jun Suzuki, Ping Koy Lam and Syed Assad
	12	33	Thermal Area Law in Long-Range Interacting Systems	Donghoon Kim, Tomotaka Kuwahara and Keiji Saito
	13	34	Recursive Quantum Relaxation for Combinatorial Optimization Problems	Ruho Kondo, Yuki Sato, Rudy Raymond and Naoki Yamamoto
✓	14	36	Deterministic generation of hybrid entangled states using quantum walks	Jaskaran Singh, Vikash Mittal and Soumyakanti Bose
	15	37	Disentanglement Provide a Unified Estimation for Quantum Entropies and Distance Measures	Myeongjin Shin, Seungwoo Lee, Mingyu Lee, Donghwa Ji, Hyeonjun Yeo, Junseo Lee and Kabgyun Jeong
	16	41	Open quantum systems based on linear optical quantum system	Zhaodi Liu
✓	17	44	High-purity single-photon generation based on cavity QED	Seigo Kikura, Rui Asaoka, Masato Koashi and Yuuki Tokunaga
✓	18	46	Retrieving non-linear features from noisy quantum states	Benchi Zhao, Mingrui Jing, Lei Zhang, Xuanqiang Zhao, Kun Wang, Yu-Ao Chen and Xin Wang
✓	19	48	Tensor-Networks-based Learning of Probabilistic Cellular Automata Dynamics	Heitor Casagrande, Bo Xing, William Munro, Chu Guo and Dario Poletti
✓	20	53	Quantifying subspace entanglement with geometric measures	Xuanran Zhu, Chao Zhang and Bei Zeng
✓	21	57	Explicit gate construction for simulating partial differential equations	Nikita Guseynov, Xiajie Huang and Nana Liu
	22	85	Memory Minimal Predictive Models for Quantum Processes	Graeme Berk, Jayne Thompson and Mile Gu
	23	192	Observation of Non-Markovian Evolution of Einstein-Podolsky-Rosen Steering	Yan Wang, Ze-Yan Hao, Kai Sun, Jin-Shi Xu, Chuan-Feng Li and Guang-Can Guo

✓	24	201	Experimental Demonstration of Real-time Bob Continuous-Variable Quantum Key Distribution over 25.7-km fiber	João Frazão, Vincent van Vliet, Menno van den Hout, Kadir Gümüş, Sjoerd van der Heide, Aaron Albores-Mejia, Boris Škorić and Chigo Okonkwo
✓	25	207	Advantage Distillation for Quantum Key Distribution	Zhenyu Du, Guoding Liu, Xingjian Zhang and Xiongfeng Ma
	26	212	Echo-evolution data generation for quantum error mitigation via neural networks	Danila Babukhin
	27	214	Quick charging of a quantum battery with superposed trajecotries	Yueh-Nan Chen, Jhen-Dong Lin, Po-Rong Lai and Yi-Te Huang
	28	234	Quantum Algorithm for Sparse Online Learning	Debbie Lim, Yixian Qiu and Patrick Rebentrost
	29	235	Distinguishing Quantum Measurement Techniques: Homodyne vs Heterodyne	Hamid Tebyanian
	30	266	Derivation of Standard Quantum Theory via State Discrimination	Hayato Arai and Masahito Hayashi
✓	31	283	Analytical lower bound on the number of queries to a black-box unitary operation in deterministic exact transformations of unknown unitary operations	Tatsuki Odake, Satoshi Yoshida and Mio Murao
✓	32	285	Entanglement transitivity from (⌈N/2⌉+1)-body marginals of an N-body pure state may be generic	Mu-En Liu, Gelo Noel M. Tabia, Kai-Siang Chen and Yeong-Cherng Liang
✓	33	295	Bounding the minimal average communication cost of nonlocal correlations	Kai-Siang Chen, Bo-An Tsai, Gelo Noel M. Tabia, Swati Kumari and Yeong-Cherng Liang
	34	301	Verification of Quantum Computations without Trusted Preparations or Measurements	Elham Kashefi, Dominik Leichtle, Luka Music and Harold Ollivier
✓	35	304	Disturbance Evaluation Circuit in Quantum Measurement	Haruki Emori, Masanao Ozawa and Akihisa Tomita
	36	310	Exponential concentration in quantum kernel methods	Supanut Thanasilp, Samson Wang, Marco Cerezo and Zoe Holmes
	37	322	Interband cascade detectors - what's next?	Piotr Martyniuk and Weida Hu
	38	323	Fidelity and Entanglement of Random Bipartite Pure States: Insights and Applications	George Biswas, Shao-Hua Hu, Jun-Yi Wu, Debasish Biswas and Anindya Biswas
	39	327	Quantum walk with a modified shift operator	Xu-Dong Liu, Chun-Wei Liu and Pei-Chen Kuan
✓	40	351	Ultra-sensitive angular measurements via a hybrid quantum switch	Lei Chen, Geng Chen and Chuan-Feng Li
✓	41	355	Experimental Implementation of Upper and Lower Bound of Speed Limit on Observables	Rui-Heng Miao and Zhao-Di Liu
	42	358	Quantum distributed algorithms for k-distinctness and k-subset-finding in CONGEST networks	Quentin Buzet and François Le Gall
✓	43	369	Improving Gaussian Elimination-based Nearest Neighbor Architecture Circuit Synthesis Method with Changing the Order of Qubits	Zanhe Qi, Atsushi Matsuo and Shigeru Yamashita
✓	44	371	Using Dynamic Programming and Binary Indexed Tree For Contraction Optimization of Tensor Network Quantum Circuit Simulations	Yuyao Zhang and Shigeru Yamashita
✓	45	375	Implementation of Variational Quantum Eigensolver by Indirect Control	Toshifumi Anan, Mako Honda, Yoshifumi Nakata and Masaki Owari
✓	46	376	An Optimization Method for Initial Placement of Logical Qubits in Lattice Surgery using Simulated Annealing	Shunsuke Matsuo, Shigeru Yamashita and Yosuke Ueno
✓	47	377	Bayesian Inference of General Noise Model Parameters from Surface Code's Syndrome Statistics	Takumi Kobori and Synge Todo
✓	48	378	Quantum advantage in qubit and qutrit processor	Wenhao Wang, Wojciech Roga and Masahiro Takeoka
	49	379	Solving the multi-dimensional Poisson equation with a variational quantum algorithm	Minjin Choi and Hoon Ryu

✓	50	380	A Python Based Toolkit for Efficient Computation of Bayesian Nagaoka-Hayashi Bound for Quantum Multiparameter Estimation	Zhao Kehan and Jun Suzuki
	51	381	Numerical optimization of resonant phase-matched quantum parametric amplifiers via resonator elements parametrization	Marc Gali, Yuki Nakashima, Yoshiro Urade, Takahiro Yamada and Kunihiro Inomata
✓	52	382	The criterions of absolutely separable from spectrum for qudit-qudits states	Liang Xiong and Nung-Sing Sze
✓	53	385	Qutrit entanglement swapping protocol with polarization and photon number basis	Kazufumi Tanji, Hikaru Shimizu and Masahiro Takeoka
	54	386	Proposing a new integrated model of classical and quantum neural networks	Chaimae El Bouazizi, Akitada Sakurai, William John Munro and Kae Nemoto
✓	55	390	Efficient verification of high-dimensional entanglement	Yiwen Wu, Zihao Li and Huangjun Zhu
✓	56	393	Metaheuristic-based Kernel Alignment for Quantum-enhanced Support Vector Machines	Gwangjong Ko, Taesu Cheong and In-Chan Choi
✓	57	395	Encoding of tree tensor networks into quantum circuits of two-qubit gates	Shota Sugawara, Tsuyoshi Okubo and Synge Todo
	58	398	Efficient Quantum Circuit Cutting with Multiple QPUs: Optimization of Cutting Positions and Subcircuit Distribution (Extended abstract)	Junya Nakamura, Mitsuhiro Matsumoto, Hana Ebi and Takahiko Satoh
✓	59	399	Single-qubit quantum gate at an arbitrary speed	Seongjin Ahn, Kichan Park, Daehee Cho, Mikyoung Lim and Andrey S. Moskalenko
✓	60	400	Parrondo's paradox in quantum walks with inhomogeneous coins	Vikash Mittal and Yi-Ping Huang
	61	401	A derivation of the minimum key rate for BB84 protocol using state flip probabilities in QPIC components under Eve’s tagging	Hanik Kim, Jeongsik Cho and Suyeon Joo
	62	402	Nonlocal quantum gates over 7.0 km	Xiao Liu, Xiao-Min Hu, Tian-Xiang Tian-Xiang, Chao Zhang, Yi-Xin Xiao, Jia-Le Miao, Zhong-Wen Ou, Pei-Yun Li, Bi-Heng Liu, Zong-Quan Zhou, Chuan-Feng Li and Guang-Can Guo
	63	404	Quantitative evaluation of quantum and classical system performance by board game win/loss ratio	Suzukaze Kamei, Hideaki Kawaguchi and Takahiko Satoh
✓	64	405	Resource allocation procedure with Quantum Internet applications	Rei Kawano, Hideaki Kawaguchi and Takahiko Satoh
	65	406	A numerical algorithm for computing i-th entry in the solution vector of the tridiagonal linear systems	Souichi Takahira, Asuka Ohashi, Tomohiro Sogabe and Tsuyoshi Usuda
	66	407	Quantum Ergodic Capacity and Quantum Outage Probability for Fading Channels	Tiancheng Wang and Tsuyoshi Usuda
✓	67	408	Dynamic Programming for Quantum Stochastic Control	Isha Le Xue Singh, Grame Dean Berk, Ariel Neufeld, Mile Gu and Jayne Thompson
	68	409	Unitary Designs of Symmetric Local Random Circuits	Yosuke Mitsuhashi, Ryotaro Suzuki, Tomohiro Soejima and Nobuyuki Yoshioka
✓	69	410	A GUI-based application to support learning and implementation of quantum applications using entanglement.	Kishou Sotokawa, Hideaki Kawaguchi and Takahiko Satoh
✓	70	411	Simulation of Quantum Ghost Imaging and Ordinary Imaging Using CT Number	Yasushi Horiba, Tiancheng Wang and Tsuyoshi Usuda
✓	71	413	On the entanglement of formation for a generalized quasi-Bell state with non-symmetric loss	Shunta Inukai, Shogo Usami and Souichi Takahira
✓	72	415	Comparison of Quantum and Classical Receivers Using Classical Reliability Function and the Superiority of Quantum Receivers	Ken Masaki, Tiancheng Wang, Shogo Usami, Souichi Takahira and Tsuyoshi Usuda
✓	73	416	Contrastive Learning with Quantum Convolutional Neural Network	Dohyoung Lee and Taeyoung Park