Symposium on Quantum Computing and Quantum Optics II

May 24-26, Zhejiang University (211 Shaoke Building, Yuquan Campus),
Hangzhou, China

May 24, Friday Morning		
Session I, Chairman: Joe Eberly		
8:00-8:05	Shi-Yao Zhu,	Opening remarks
	Zhejiang University, China	
8:05-8:50	Marlan O. Scully	On Bose condensates, squeezed
	Texas A&M University, USA	light and black holes
8:50-9:20	Hongxing Xu	Plasmonic Nanocavity
	Wuhan University, China	
9:20-9:50	M. Suhail Zubairy	Erasing memory-Protecting
	Texas A&M University, USA	quantum coherence and
		entanglement
9:50-10:20	Coffee Bro	eak, Taking photos
	Session II, Chairman: I	Marlan O. Scully
10:20-10:50	Joe Eberly	Single-Photon Interference,
	University of Rochester,	Duality, Entanglement, and
	USA	Delayed Choice Experiments
10:50-11:20	Xiaobo Zhu	Genuine 12-Qubit Entanglement
	University of Science and	on a Superconducting Quantum
	Technology, China	Processor
11:20-11:50	Barry Garraway	Dressed-atom potentials for
	University of Sussex, UK	matter-wave interference
11:50-12:20	Anatoly Svidzinsky	Excitation of cavity modes by a
	Texas A&M University, USA	moving atom through virtual
		transitions

May 24, Friday Afternoon		
Session I, Chairman: Hongxing Xu		
13:30-14:00	Peter Nordlander	Quantum Plasmonics and
	Rice University, USA	Applications in Light Harvesting
14:00-14:30	Kohzo Hakuta	Nanofiber Cavity-QED for
	University of Electro-	Manipulating Single Photons
	Communications, Japan	
14:30-15:00	Ed Fry	Research Capabilities via an
	Texas A&M University,	Ultrahigh Diffuse Reflecting Material
	USA	
15:00-15:30	Coffee Break, Poster Session	
Session II, Chairman: Ed Fry		
15:30-16:00	Olga Kocharovskaya	Quantum optics with x-rays:
	Texas A&M University,	Dynamical control of Resonant
	USA	Interaction
16:00-16:30	Ralf Rohlsberger	Quantum Optics and Coherent
	DESY, Germany	Control with Magnons
16:30-17:00	Joerg Evers	Simulating control fields for nuclear
	Max-Planck Institute,	quantum optics using mechanical
	Heidelberg, Germany	motion
17:00	Dinner	

May 25, Saturday Morning		
Session I, Chairman: Haohua Wang		
8:00-8:30	Andrew Cleland	Violating Bell's inequality with
	University of Chicago, USA	remotely connected
		superconducting qubits
8:30-9:00	Can-Ming Hu	Level Attraction: Cavity Spintronics
	University of Manitoba,	Finds a New Path
	Canada	
9:00-9:30	Luming Duan	Quantum network and quantum
	Tsinghua University, China	machine learning
9:30-10:00	Amnon Aharony	Time reversal symmetry and spin
	& Ora Entin	splitting in mesoscopic networks
	Ben Gurion University,	
	Israel	
10:00-10:20	Coffee Bre	eak, Poster Session
	Session II, Chairman:	: Da-Wei Wang
10:20-10:50	Quan Li	Investigating mechanical property
	The Chinese University of	of soft materials by diamond
	Hong Kong, HK	quantum sensing
10:50-11:20	Phil Hemmer	Quantum enhanced biosensing
	Texas A&M University, USA	with diamonds and phosphors
11:20-11:50	Ren-Bao Liu	Characterization of correlations in
	The Chinese University of	a quantum bath
	Hong Kong, HK	
11:50-12:20	Gangqin Liu	Coherent quantum control of
	Institute of Physics, CAS,	nitrogen-vacancy centre spins near
	China	1000 kelvin

May 25, Saturday Afternoon			
	Session I, Chairman: Ren-Bao Liu		
13:30-14:00	Chaoyang Lu	Quantum light source	
	University of Science and	engineering towards "quantum	
	Technology, China	supremacy"	
14:00-14:30	Joachim von Zanthier	Super-and subradiance in free	
	University of Erlangen-	space	
	Nuremberg, Germany		
14:30-15:00	Da-Wei Wang	Superradiance, subradiance and	
	Zhejiang University, China	chirality in cold qubits and hot	
		atoms	

15:00-17:30: Tour around the West Lake

18:00-20:00: Dinner honoring Marlan O. Scully at the Zhejiang Narada Grand Hotel (Restaurant Yuntian Ge on the 2^{nd} floor of the hotel)

May 26, Sunday Morning			
Session I, Chairman: Luming Duan			
8:00-8:30	Michael Fleischhauer	Many-body physics of Rydberg	
	Univ. of Kaiserlautern,	polaritons	
	Germany		
8:30-9:00	Miguel Orszag	Fisher Information, weak values	
	Universidad Mayor, Chile	and correlated noise in	
		interferometry	
9:00-9:30	Yasunobu Nakamura	Single-Photon Detectors in	
	University of Tokyo, Japan	Microwave Quantum Optics	
9:30-10:00	Jian-Wei Pan	Scalable quantum information	
	University of Science and	processing with photons and cold	
	Technology of China, China	atoms	
10:00-10:20	Coffee Bre	ak, Poster Session	
	Session II, Chairman: Jian-Qiang You		
10:20-10:55	Franco Nori	Quantum optics without photons	
	RIKEN, Japan		
10:55-11:25	Haohua Wang	Observation of multi-component	
	Zhejiang University, China	atomic Schrodinger cat states of	
		up to 20 qubits	
11:25-11:55	Dawei Lu	Quantum Simulation of	
	Southern University of	Topological Orders using NMR	
	Science and Technology,		
	China		
11:55-12:25	Luqi Yuan	Synthetic dimension in photonics	
	Shanghai Jiao Tong		
	University, China		

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May 26, Sunday Afternoon		
Session I, Chairman: Bo Yan		
13:30-14:00	Gediminas Juzeliunas	Non-Abelian geometric phases
	University of Vilnius,	for periodically driven systems
	Lithuania	
14:00-14:30	Yuao Chen	Critical dynamics across the
	University of Science and	atomic resonance
	Technology of China, China	
14:30-15:00	Xiong-Jun Liu	Emergent topology and
	Peking University, China	symmetry-breaking order in
		correlated quench dynamics
15:00-15:30	Con	fee Break
Session II, Chairman: Phil Hemmer		
15:30-16:00	Vlad Yakovlev	Towards quantum spectroscopy
	Texas A&M University, USA	and imaging of biological systems
16:00-16:30	Delong Zhang	Bond-Selective Imaging Based on
	Zhejiang University, China	Molecular Vibrational
		Fingerprint
16:30-17:00	Konstantin Dorfman	Resolving homogeneous
	East China Normal	broadening by multidimensional
	University, China	spectroscopy in EIT regime
17:00: Dinner		