1st KONNEKT e-Workshop

- Korea-Nordic e-Workshop for Networking and Ties -

on Quantum Computing

Speakers

Korean Side	Nordic Side
Eunjong Kim (Seoul National University)	Anton Frisk Kockum (Chalmers University of Technology)
Gilho Lee (POSTECH)	Simone Gasparinetti (Chalmers University of Technology)
Jindong Song (KIST)	Jørgen Ellegaard Andersen (University of Southern Denmark)
Dohun Kim (Seoul National University)	Cameron Lauvitel (SemiQon)
Joonwoo Bae (KAIST)	Teiko Heinosaari (University of Jyväskylä)

Tentative Program Schedule

	Time (CET / KST)	Presentation Title	Speaker
Moderator: Joonwoo Bae			
Opening	08:30-08:40 (15:30-15:40)	Opening Remarks Congratulatory Remark	KNTEC & KE-QSTCC TBD
	08:40-08:45 (15:40-15:45)	Introduction of the Speakers	KNTEC
Session I	08:45-09:00 (15:45-16:00)	III-V based materials and devices for photon-based quantum technology [Quantum Enabling Technology for Photon Qubits] in KIST	Jindong Song
	09:00-09:15 (16:00-16:15)	Computing Gaussian Weighted Integrals using Gaussian Boson Sampling	Jørgen Ellegaard Andersen
	09:15-09:30 (16:15-16:30)	Engineering Novel Connectivity Between Superconducting Qubits	Eunjong Kim
	09:30-09:45 (16:30-16:45)	Architecture considerations for superconducting quantum processors	Anton Frisk Kockum
	09:45-10:00 (16:45-17:00)	Q&A and Discussion	All participants
	10:00-10:10 (17:00-17:10)	Break Time	
Session II	10:10-10:25 (17:10-17:25)	Graphene Josephson junction: for non-equilibrium quantum physics and for microwave sensor applications	Gilho Lee
	10:25-10:40 (17:25-17:40)	Towards verified quantum speedup in a bosonic superconducting processor	Simone Gasparinetti

	10:40-10:55 (17:40-17:55)	Challenges and opportunities in silicon quantum computing experiments	Dohun Kim
	10:55-11:10 (17:55-18:10)	SemiQon Millikelvin electronics for quantum processors	Cameron Lauvitel
	11:10-11:25 (18:10-18:25)	Q&A and Discussion	All participants
	11:25-11:35 (18:25-18:35)	Break Time	
Session III	11:35-11:50 (18:35-18:50)	SPAM Errors in Computing with Near-Term Quantum Devices	Joonwoo Bae
	11:50-12:05 (18:50-19:05)	Metainformation in Quantum Guessing Games	Teiko Heinosaari
	12:05-12:20 (19:05-19:20)	Q&A and Discussion	All participants
Closing	12:20-12:30 (19:20-19:30)	Further Discussion and Wrap-up Remarks	KNTEC & KE-QSTCC