			Nordic Quantum Autumn School 2025 (draft timetable)			
			Date: Nov 3-7, 2025	location: RISE KTH at "Innoversum" room	organisers: ENCCS, NCC Denmark, NCC Lithuania	
		Monday 3rd	Tuesday 4th	Wednesday 5th	Thursday 6th	Friday 7th
slot 1	9:00-10:00	arrival and coffee 9:00-9:30 Welcome & Introduction	Introduction to variational quantum algorithms: QAOA	Introduction to variational quantum algorithms: VQE and beyond (QPE,, SQD)	introduction toTrapped-ion	Quantum Neural Networks
		to QAS2025 9:00-10:00 Thor Wikfeldt (ENCCS/RISE, SE)	Franz Fuchs (SINTEF, UiO, NO)	Juan de Gracia Triviño (ENCCS/RISE, SE)	Panagiotis Barkoutsos (lonQ)	Stefano Markidis (KTH, SE)
slot 2	0:00-11:00	Introduction to the European Hybrid classical/quantum HPC+AI+QC ecosystem. LUMI-Q Quantum Flagship	In-depth description of variational quantum algorithms: QAOA 10:00-10:40 Franz Fuchs (SINTEF, NO)	VQE applied to use cases for quantum chemistry/drug discovery: in-depth description of specific use case 10:00-10:40 Panagiotis Barkoutsos (lonQ)	coffee break 10:00-10:20 Atomistic simulations on quantum accelerated supercomputing	hands-on QNNs using pennylane/classification (tutorial) Stefano Markidis (KTH, SE))
	10	Mikael Johansson (CSC, FI)	coffee break 10:40-11:00	coffee break 10:40-11:00	Karim (ENCCS/RISE, SE)	coffee break 10:40-11:00
slot 3	11:00-12:00	Overview of the HPC/QC software stack, from ready-made Q-libraries for common tasks to circuit level assembly and hardware-level coding	to be defined	Controlling a quantum computer using pulses	Accelerated Quantum Supercomputing using NVIDIA CUDA-Q	Quantum Reservoir computing
		Miroslav Dobsicek	Speaker	Stefan Seegerer (IQM)	Esperanza Cuenca-Gómez (NVIDIA)	Ruben Pariente Bassa (SINTEF, NO)
	12:00-13:00	Lunch	Lunch	Lunch	Lunch	Lunch
slot 4	13:00-14:00	Quantum gates and circuits Giulia Ferrini (MC2,	Getting started with algorithm development on actual quantum hardware using IQM Resonance	High Ground State Overlap via Quantum Embedding Methods	Quantum error-correction (QEC)	Towards 2045: Do we still talk about Quantum superiority?
		Chalmers/WACQT, SE)	Stefan Seegerer (IQM)	Matthias Christandl (København U, DK)	Mats Granath (Göteborg University)	Panel discussion
slot 5	14:00-15:00	Quantum gates, circuits and algorithms	Developing quantum algorithms with qrisp, the next generation of quantum algorithm development	interactive tutorial on the devices (LUMI-Q/IQM devices)	quantum monte carlo and quantum finance	closing
		Juan de Gracia Triviño (ENCCS/RISE, SE)	Stefan Seegerer (IQM)	speaker (VLQ)	Björn Löfdahl (SEB)	The end
	15:00-15:30	coffee break	coffee break	coffee break	coffee break	
slot 7	15:30-16:30	Quantum Information Theory introduction, building quantum algorithm, QFT,	interactive tutorial: experiments with quantum gates, circuits and algorithms (qiskit/qrips simulation)	PechaKucha presentations and posters	interactive tutorial: Quantum error-correction (QEC) hands-on	
		Stefano Markidis (KTH, SE)	Juan de Gracia Triviño (ENCCS/RISE, SE)		Mats Granath team (Göteborg University)	
	16:30-17:30	SuperQEUROK and LUMI-Q - facts and opportunities	interactive tutorial: Execution of simple examples on optimisation with QAOA (simulation)		interactive tutorial: quantum monte carlo and quantum finance	
		Göran Wendin (RISE, SE)	hands-on (Franz)		Björn Löfdahl (SEB)	
	18:00-20:00	Reception, mingling		Buffé dinner		