		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	Introduction to variational quantum algorithms: QAOA	Introduction to variational quantum algorithms: VQE and beyond (QPE,, SQD)	introduction toTrapped-ion	Quantum Neural Networks
		Welcome & Introduction 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	0-11:00	Introduction to the European Hybrid classical/quantum HPC+AI+QC ecosystem. LUMI-Q	In-depth description of variational quantum algorithms: QAOA  10:00-10:40  Franz Fuchs	VQE applied to use cases for quantum chemistry/drug discovery: in-depth description of specific use	coffee break 10:00-10:20  Atomistic simulations on quantum accelerated supercomputing	hands-on QNNs using pennylane/classification (tutorial)  Stefano Markidis
0)	10:0	Quantum Flagship  Mikael Johansson	(SINTEF, NO)  coffee break	Panagiotis Barkoutsos (IonQ)  coffee break	10:20-11:00 <b>Karim</b>	(KTH, SE))  coffee break
		(CSC, FI)	10:40-11:00	10:40-11:00	(ENCCS/RISE, SE)	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 bardware level assembly	to be defined	Controlling a quantum computer using pulses	Accelerated Quantum Supercomputing using NVIDIA CUDA-Q	Quantum Reservoir computing
		hardware-level coding  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  Matthias Christandl	Quantum error-correction (QEC)	Towards 2045: Do we still talk about Quantum superiority?
		Chalmers/WACQT, SE)	Stefan Seegerer (IQM)	(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 slot 6	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)			
		Göran Wendin (RISE, SE)	hands-on (Franz)			
	18:00-20:00	Reception, mingling		Buffé dinner		