			Quan			
			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 8:30-9:15 Welcome! ENCCS & QAS2025 Introduction Karim Elgammal (ENCCS/RISE, SE)	Introduction to variational quantum algorithms: VQE, QAOA and beyond (QPE,, SQD)	Variational Algorithms; Designing use cases for near term quantum algorithms	Scaling up ion trap quantum computers and quantum technologies; the case of lonQ	Quantum Neural Networks
		Thor Wikfeldt (MIMER/RISE, SE)	Juan de Gracia Triviño (ENCCS/RISE, SE)	Panagiotis Barkoutsos (IonQ)	Panagiotis Barkoutsos (lonQ)	Stefano Markidis (KTH, SE)
slot 2	10:00-11:00	Introduction to the European Hybrid classical/quantum HPC+AI+QC ecosystem. LUMI-Q Quantum Flagship 10:00-10:40 Mikael Johansson	In-depth description of variational quantum algorithms 10:00-10:40 Juan de Gracia Triviño	Controlling a quantum computer using pulses Stefan Seegerer	Atomistic simulations on quantum accelerated supercomputing 10:00-10:40 Karim Elgammal, Marc Maußner (ENCCS/DISE, SE)	hands-on QNNs using pennylane/classification (tutorial) Stefano Markidis
		(CSC, FI)	(ENCCS/RISE, SE)	(IQM)	(ENCCS/RISE, SE) (infoteam, DE)	(KTH, SE))
		coffee break 10:40-11:00	coffee break 10:40-11:00	coffee break 10:40-11:00	coffee break 10:40-11:00	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	Opportunities for extending quantum computing through subspace, embedding and classical molecular dynamics techniques	LUMI-Q/VLQ presentation Miroslav Dobsicek	Accelerated Quantum Supercomputing using NVIDIA CUDA-Q	Quantum Reservoir computing
		Miroslav Dobsicek	Thomas M. Bickley (UCL, UK)		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, circuits and algorithms	Getting started with algorithm development on actual quantum hardware using IQM Resonance	How to use quantum computers for biomolecular free energies	Quantum error-correction (QEC)	closing
		Juan de Gracia Triviño (ENCCS/RISE, SE)	Stefan Seegerer (IQM)	Matthias Christandl (København U, DK)	Mats Granath (Göteborg University)	The end
slot 5	14:00-15:00	Quantum gates and circuits	Developing quantum algorithms with qrisp, the next generation of quantum algorithm development	Pre-panel discussion Göran Wendin (RISE, SE)	Quantum kernel estimation with application to disability insurance	
		Giulia Ferrini (MC2, Chalmers, WACQT, SE)	Stefan Seegerer (IQM)	coffee break	Björn Löfdahl (SEB)	
	15:00-15:30	coffee break	coffee break	Towards 2045: Do we still only talk about Quantum superiority?	coffee break	
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)	Panel discussion Göran Wendin (RISE, SE)	interactive tutorial: Quantum error-correction (QEC) hands-on	
		Stefano Markidis (KTH, SE)	Juan de Gracia Triviño (ENCCS/RISE, SE)		Moritz Lange (Göteborg University)	
slot 7	16:30-17:30	From qubits 2000 to Nobel Prize 2025	interactive tutorial: Execution of variation algorithms examples	PechaKucha presentations	interactive tutorial: Quantum kernel estimation with application to disability insurance	
		Göran Wendin (RISE, SE)	Speaker		Björn Löfdahl (SEB)	
	18:00-20:00	Reception, mingling		Buffé dinner		