

# Summer School 2024 Schedule (week 1)

	Monday June 3	Tuesday June 4	Wednesday June 5	Thursday June 6	Friday June 7
7h45 - 8h45	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
8h45 – 10h15	<b>Sophia Economou</b> Variational quantum algorithms	<b>AlgoLab</b> Practical work Algorithms	<b>Christa Zoufal</b> Variational quantum simulation	<b>Thomas Iadecola</b> Variational principle for quantum simulation in and out equilibrium	<b>Zlatko Minev</b> Introduction to noise in quantum computers and quantum simulation of many-body systems
10h15 – 10h35	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
10h35 – 12h05	<b>Sophia Economou</b> Variational quantum algorithms	<b>AlgoLab</b> Practical work Algorithms	<b>Christa Zoufal</b> Variational quantum simulation	<b>Thomas Iadecola</b> Variational principle for quantum simulation in and out equilibrium	<b>Zlatko Minev</b> Introduction to noise in quantum computers and quantum simulation of many-body systems
12h05 – 13h30	Lunch	Lunch	Lunch	Lunch	Lunch
13h30 – 15h00	Free time	Free time	Free time	Free time	Free time
15h00 - 16h00	<b>AlgoLab</b> Practical work Level up	<b>Sponsored Session</b> Practical work	<b>AlgoLab</b> Practical work Simulation 1	<b>Zohreh Davoudi</b> Quantum algorithms for simulating nature's fundamental interactions	<b>AlgoLab</b> Practical work Simulation 2
16h00 – 16h20	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
16h20 – 18h00	<b>AlgoLab</b> Practical work Level up	<b>Sponsored Session</b> Practical work	<b>AlgoLab</b> Practical work Simulation 1	<b>Zohreh Davoudi</b> Quantum algorithms for simulating nature's fundamental interactions	<b>AlgoLab</b> Practical work Simulation 2
18h30 – 20h00	Dinner	Dinner	Dinner	Dinner	Dinner
20h30 – 21h30			<b>Poster Session 2</b>		

## Summer School 2024 Schedule (week 2)

	Monday June 10	Tuesday June 11	Wednesday June 12	Thursday June 13	Friday June 14
7h45 - 8h45	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
8h45 – 10h15	<b>AlgoLab</b> Practical work Error mitigation	<b>Micheline Soley</b> Connection between tensor network methods and quntum computing algorithms	<b>Andrew Green</b> Translating tensor network algorithms to quantum computers	<b>Pooya Ronagh</b> Neural quantum states and their applications	<b>Exam</b>
10h15 – 10h35	Coffee break	Coffee break	Coffee break	Coffee break	
10h35 – 12h05	<b>AlgoLab</b> Practical work Error mitigation	<b>Micheline Soley</b> Connection between tensor network methods and quntum computing algorithms	<b>Andrew Green</b> Translating tensor network algorithms to quantum computers	<b>Pooya Ronagh</b> Neural quantum states and their applications	
12h05 – 13h30	Lunch	Lunch	Lunch	Lunch	
13h30 – 15h00	Free time	Free time	Free time	Free time	<b>End</b>
15h00 - 16h00	<b>Nicolas Quesada</b> Classically simulating quantum continuous variable systems	<b>Sponsored Session</b> Practical work	<b>Stefanie Czischek</b> Introduction lectures on simulating quantum many-body systems with language models	<b>AlgoLab</b> Practical work QML	
16h00 – 16h20	Coffee break	Coffee break	Coffee break	Coffee break	
16h20 – 18h00	<b>Nicolas Quesada</b> Classically simulating quantum continuous variable systems	<b>Sponsored Session</b> Practical work	<b>Stefanie Czischek</b> Introduction lectures on simulating quantum many-body systems with language models	<b>AlgoLab</b> Practical work QML	
18h30 – 20h00	Dinner	Dinner	Dinner	Dinner	
20h30 – 21h30			<b>Poster Session 1</b>		