



Spring School on Quantum Optics in Coherent Circuits

May 4-10 2026

Kilpisjärvi, Finland



General Information

Organizing committee

Prof. Pertti Hakonen, Chair	pertti.hakonen@aalto.fi
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Ilari Lilja, Travel coordination	ilari.lilja@aalto.fi

Proposed format

- **Mini-courses** — $2\text{-}3 \times 90$ min, 6 courses
- **Student Spotlights** — 15 min presentation + 5 min discussion
- **Poster session** — 2 hours

Tentative topics

- Quantum Continuous Variables
- Quantum Phase Estimation
- Cluster states
- One-way quantum computing
- Tomography of bosonic quantum states.
- Design principles of parametric circuits: JPAs and TWPAs
- Non-reciprocal devices
- Quantum-limited amplification
- Parametric optomechanics
- Coherence in electronic systems
- Electron quantum optics

Travel and Accommodation

- Flight to Kittilä + bus transfer to the biological station
- Accommodation at **Kilpisjärvi Biological Station** (max 44 people) and **Kilpisjärvi Hiking Center**
- Bus transfer back to Kittilä

Practical support

- Visa letters, participation certificate
- Full audiovisual setup + support
- Lecture hall for 50 people
- Hall for posters

	DAY 1 4 May Mon	DAY 2 5 May Tue	DAY 3 6 May Wed	DAY 4 7 May The	DAY 5 8 May Fri	DAY 6 9 May Sat	DAY 7 10 May Sun
8:00 – 9:00		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
9:00 – 11:00		Lecture (2h)	Lecture (2h)	Hiking / Skiing	Lecture (2h)	Lecture (2h)	Departure
11:00 – 11:15		Coffee	Coffee		Coffee	Coffee	
11:15 – 13:15		Lecture (2h)	Lecture (2h)		Lecture (2h)	Lecture (2h)	
13:15 – 14:15		Lunch	Lunch		Lunch	Lunch	
14:15 – 16:15		Lecture (2h)	Lecture (2h)	Lunch	Lecture (2h)	Lecture (2h)	
16:15 – 18:00	Arrival	Posters	Contributed talks	Contributed talks	Contributed talks	Exam / Quiz	
18:00 – 19:00	Dinner	Dinner	Conference Dinner	Dinner	Dinner	Dinner	
19:00 – 21:00	Get together / Aurora hunting lecture	CPW design seminar		Sauna / COMSOL seminar	Seminar	Closure	
21:00 ++	Stargazing and Aurora hunting						

Figure 1: Program proposal

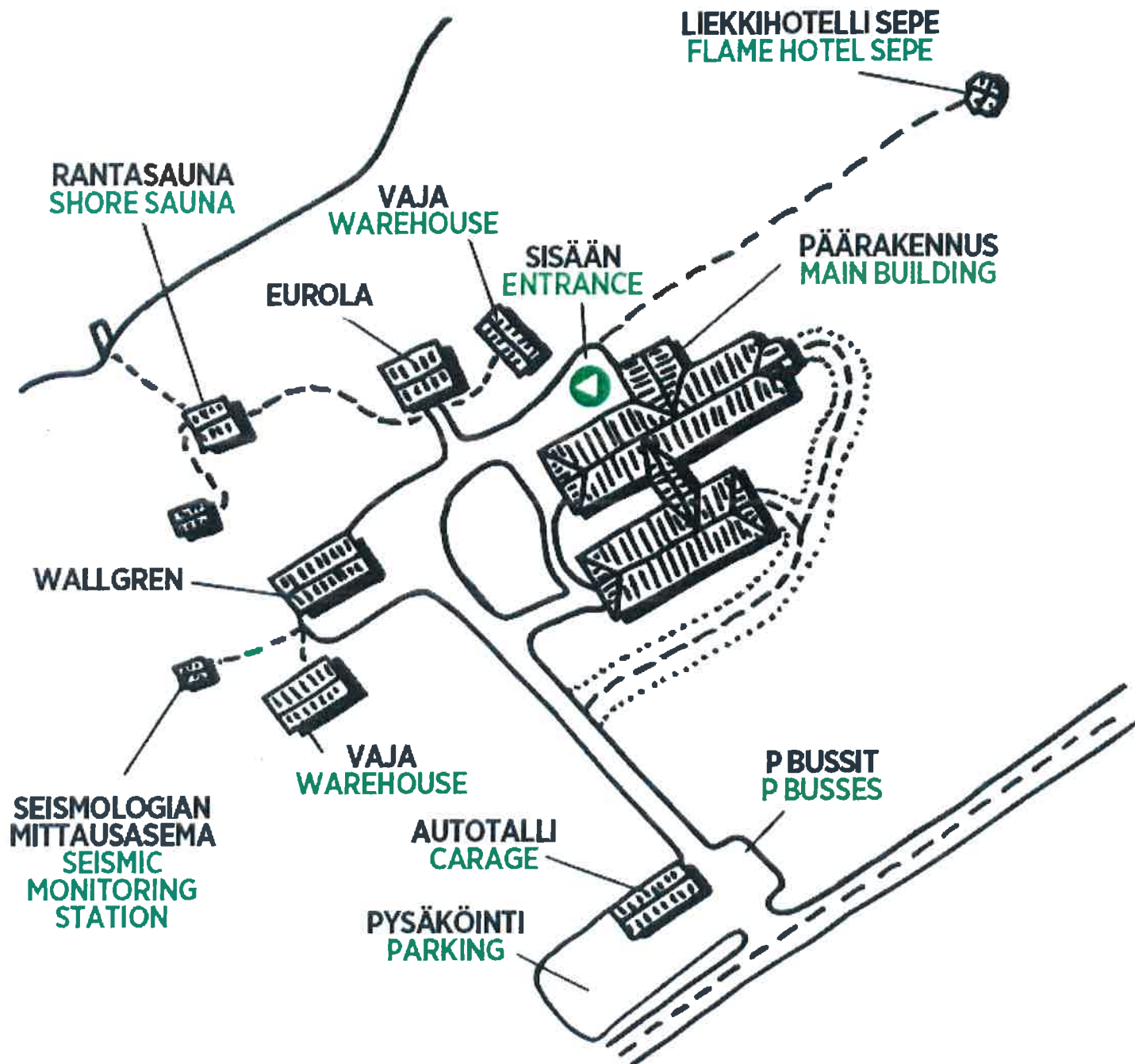
Leisure time activities

- Aurora & Stargazing Night
- Traditional Sauna
- Icewater Diving
- Reindeer Farm
- Snowmobile Racing
- Quantum Quiz and Party Games
- BBQ in the Snow
- Skiing & Hiking to Saana Mountain



ALUEKARTTA AREA MAP

Kartta on suuntaa antava
The map is indicative



PÄÄRAKENNUS MAIN BUILDING

Pohjakartta on suuntaa antava
The floor plan is indicative



KILPISJÄRVI BIOLOGICAL STATION

