

QIA Spring 2025 Meeting – DRAFT AGENDA			
Start	End		
		May 19, 2025, QIA Spring 2025 Meeting – Day 1 Villa Blanka Eventcenter, Weiherburggasse 8, 6020 Innsbruck	
8:30	9:00	Registration – Signature is Mandatory	
		Plenary (Meeting Room 1 and 2)	
9:00	9:10	Welcome by the Host	Ben Lanyon, UIBK
9:10	9:25	QIA Highlights	QIA Director, Stephanie Wehner
9:25	9:45	Best Paper Award and QIA Innovations Ceremony	
		Metropolitan Session	
		Chairperson	Florian Kaiser (LIST)
9:45	10:00	Metropolitan Network Overview	Tracy Northup (UIBK)
10:00	10:15	A trapped-ion quantum processing node (Task 1.2)	Viktor Krutyanskiy (UIBK)
10:15	10:30	A deployable trapped-ion network node (Task 1.3)	Josef Schupp (AQT)
10:30	10:45	Sometimes simple is best: how we decided on a photonic client design for SET (Task 1.4)	Janice van Dam (TU Delft)
10:45	11:00	Metropolitan hubs: connecting many users in metropolitan quantum networks (Task 1.5)	Scarlett Gauthier (TU Delft)
11:00	11:30	Coffee Break	

		Long Distance Overview	
		Chairperson	Hugues de Riedmatten
11:30	11:45	Long Distance Overview	Hugues de Riedmatten
11:45	12:00	Towards a solid-state functional quantum repeater link	Félicien Appas (ICFO)
12:00	12:15	Recent progress towards quantum repeaters with cold atom quantum memories	Isabelle Riou (Weling)
12:15	12:30	Loss-tolerant photonic qubits: the magic of graph states	Olivier Morin (MPQ)
12:30	13:30	Lunch Break	
		Stack and Integration Session	
		Chairperson	Fokko de Vries
13:30	13:45	Stack and Integration Overview	Fokko de Vries
13:45	14:00	Uniting Quantum Processing Nodes of Cavity-coupled Ions with Rare-earth Quantum Repeaters Using Single-photon Pulse Shaping Based on Atomic Frequency Comb	Pierre Cussenot
14:00	14:15	New hardware integration in trapped ion setup	Felix Bernecker & Shaurya Bhawe
14:15	14:30	Local Scheduling and Compilation on Quantum Network Nodes	Samuel Oslovich
14:30	14:45	QNodeOS Qblox integration	Vatshal Srivastav
14:45	15:15	Coffee Break	

15:15	17:00	Work Sessions		
		Meeting Room 3 (big)	Meeting Room 4 (medium)	Meeting Room 5 (small)
15:15	16:05	Long distance integration tests Chairperson: Fokko de Vries Participants: ICFO, TU Delft (Stack team), Qblox, Stephanie, Scarlett/Thomas	Photonic Clients Chairperson: Janice van Dam Participants: TUD, Q*Bird, UIBK, UCPH	Use Case Simulations Chairperson: Michele Amoretti (UNIPR) Minutes: Michele Bandini (UNIPR) Use Case Team + Michal van Hooft + Nico Seidler
16:05	17:00	Metro-LD Interface: Entanglement Generation Protocols Chairperson: Fokko de Vries Participants: UCPH (Benedikt Tissot, Anders Sorensen, Emil Rye Hellebek), TUD (Michal van Hooft, Soubhadra Maiti), CEA (Bastien Grivet, Pierre Cussenot), UIBK (Tracy Northup), ICFO (Hugues de Riedmatten, Samuele Grandi), Qblox (Fokko de Vries), Weling (Isabelle Riou), Fraunhofer (Florian Elsen)	Quantum Compilation Chairperson: Michele Amoretti (UNIPR) Minutes: Michele Bandini (UNIPR) Participants: UNIPR, UPV, TU Delft (Bart van der Vecht, Thom van der Steenhoven, etc.)	Available space
17:00	18:30	Poster Session (Please note that the posters will be accessible during both days)		
19:30	22:00	Dinner – Bierstindl, Klostergasse 6, 6020 Innsbruck		

		May 20, 2025, QIA Spring 2025 Meeting - Day 2, Villa Blanka Eventcenter, Weiherburggasse 8, 6020 Innsbruck	
8:30	9:00	Registration – Signature is Mandatory	
		Plenary (Meeting Room 1 and 2)	
		Use Case Session	
		Chairperson	Michele Amoretti (UNIPR)
9:00	9:05	Use Case Team Overview	Michele Amoretti (UNIPR)
9:05	9:15	User Engagement	Wojtek Kozlowski (SURF)
9:15	10:05	Simulation of Selected Use Cases	(several speakers will alternate)
10:00	10:15	Securing blind quantum computation with weak coherent pulse clients	Maxime Garnier (INRIA)
		Architecture Team Session	
		Chairperson	Nico Seidler (TUD)
10:15	10:25	Architecture Team Overview	Nico Seidler (TUD)
10:25	10:40	Simulating Border Nodes: An Interface Between Metropolitan Networks and the Backbone	Soubhadra Maiti (TUD)
10:40	10:55	Modelling and Simulation UCPH	Benedikt Tissot (UCPH)
10:55	11:30	Coffee Break	
		Innovation & Outreach Session	
		Chairperson	Stephan Ritter
11:30	11:40	Building for One Europe and QIA Outreach	Jeremiah Fajardo – Oosterman

11:40	11:50	Use Cases Outreach		Arianna Ricchiuti, Michele Amoretti
11:50	12:05	QIA Innovation Radar and QIATF Results		Vlora Rexhepi-van der Pol
12:05	12:20	From research to commercial product – Toptica journey		Christoph Tresp (Toptica)
12:20	12:35	From research to commercial product – Weling journey		Isabelle Riou (Weling)
12:35	13:30	Lunch Break		
		Work Sessions		
		Meeting Room 3 (big)	Meeting Room 4 (medium)	Meeting Room 5 (small)
13:30	14:30	Trapped Ions + Stack Chairperson: Tracy Northup Participants: UIBK, AQT, Delft Networks, Qblox	User Engagement + WP4 Deliverables Chairperson: Wojtek Kozlowski (SURF) Minutes: Davide Ferrari (UNIPR) WP4 partners	Available space
14:35	15:15	Plenary (Meeting Room 1 and 2) Closing Session Chairperson: Tracy Northup (UIBK) Short report and next steps from each work session		
15:15	15:30	Short Break (first public bus to university @15:23)		
15:30	19:00	Lab Tours		

Color codes	Meaning
	Open to all participants
	Open to observers: these are any members genuinely interested in the topic, but not involved in the work
	Invites only: these are sessions focused on specific topics concerning a limited number of experts
	Socializing :)

Important information

Contact Information: QIA Coordination Team | qia-qutech@tudelft.nl

Locations

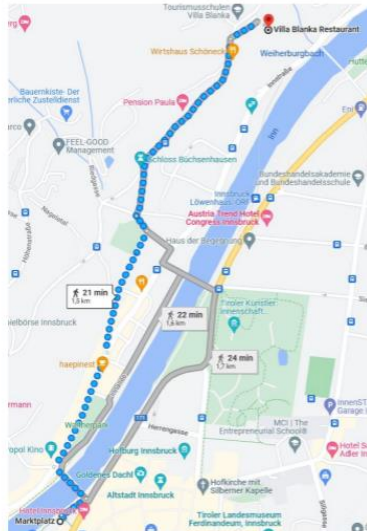
- **Meeting:** Villa Blanka Eventcenter, Weiherburggasse 8, 6020 Innsbruck
- **Dinner:** Bierstindl, Klostersgasse 6, 6020 Innsbruck

How to reach the Meeting venue from Marktplatz, a central location in downtown Innsbruck

Villa Blanka
Weiherburggasse 31, A-6020 Innsbruck
<https://www.villablanka.com/restaurant-eventcenter/eventcenter/>

How to get there:

- You can reach it on foot in 25 minutes (from Marktplatz); slightly uphill or



The venue is a 25 minute uphill walk from the Marktplatz in Innsbruck (a central location downtown, with excellent bus and tram connections). Otherwise, the 'W' bus line connects Marktplatz to the venue (Bus stop name 'Alpenzoo').

Please arrive at Bierstindl by 19:30, which is one hour after the end of the poster session. Walking takes around 50 minutes. Otherwise, there are a variety of bus and tram options that are best found via an internet search (e.g., google maps or <https://www.ivb.at/en/>)

Walking takes around 50 minutes. Otherwise, there are a variety of bus and tram options that are best found via an internet search (e.g., google maps or <https://www.ivb.at/en/>)

By bus line W from station “Marktplatz” to station “Villa Blanka in 7 minutes

- Quarter-hourly departures from 07:45 to 08:30 and 16:30 to 17:00
- Half-hourly departures from 08:30 to 16:30 and 17:00 to 21:00

W Alpenzoo Montag - Freitag (wenn Schultag)

Marktplatz	06:15	06:30	06:45	07:15		07:45	08:15	08:30		16:30	16:45	17:00		21:00	21:15	21:30	22:00	22:30	22:45
Innstraße	06:17	06:32	06:47	07:17	alle	07:47	08:17	08:32	alle	16:32	16:47	17:02	alle	21:02	21:17	21:32	22:02	22:32	22:47
Schmelzergasse	06:17	06:32	06:47	07:17	7-8	07:47	08:17	08:32	30	16:32	16:47	17:02	30	21:02	21:17	21:32	22:02	22:32	22:47
Schloss Büchsenhausen	06:19	06:34	06:49	07:19	Min	07:49	08:19	08:34	Min	16:34	16:49	17:04	Min	21:04	21:19	21:34	22:04	22:34	22:49
Villa Blanka	06:20	06:35	06:50	07:20		07:50	08:20	08:35		16:35	16:50	17:05		21:05	21:20	21:35	22:05	22:35	22:50
Alpenzoo	06:21	06:36	06:51	07:21		07:51	08:21	08:36		16:36	16:51	17:06		21:06	21:21	21:36	22:06	22:36	22:51

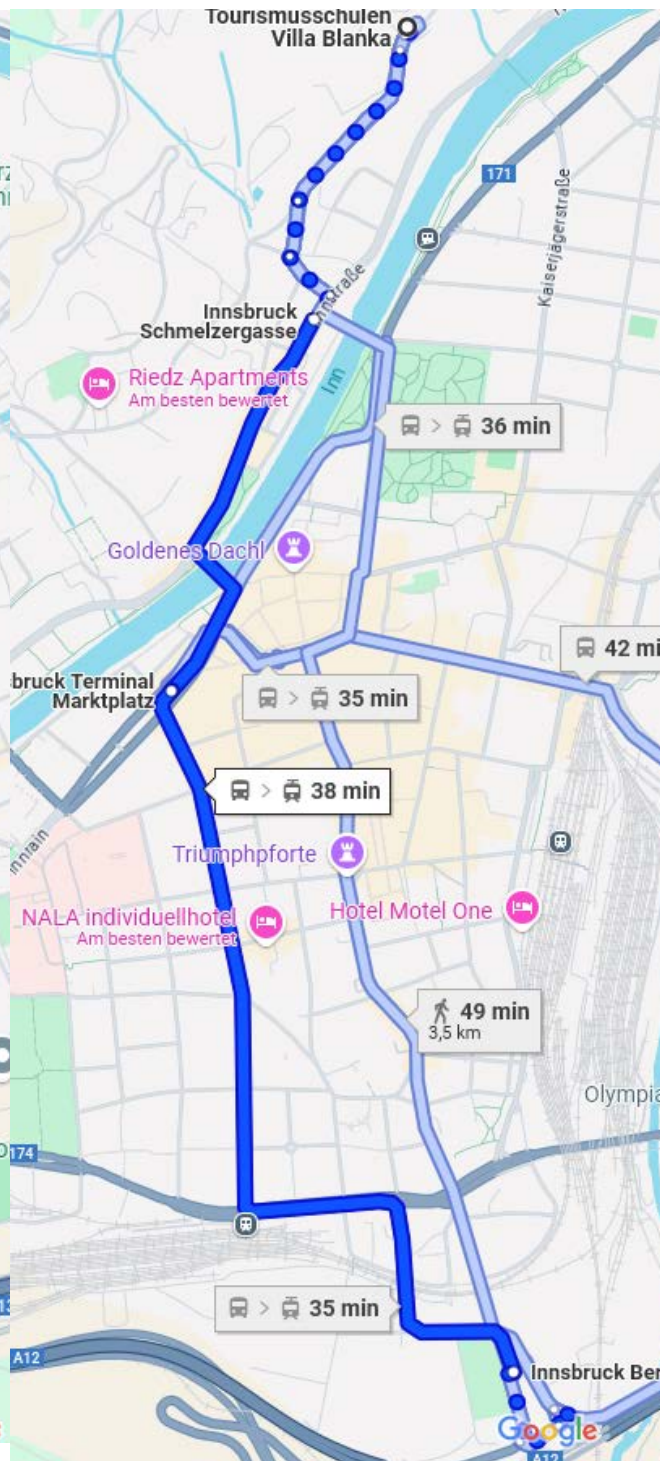
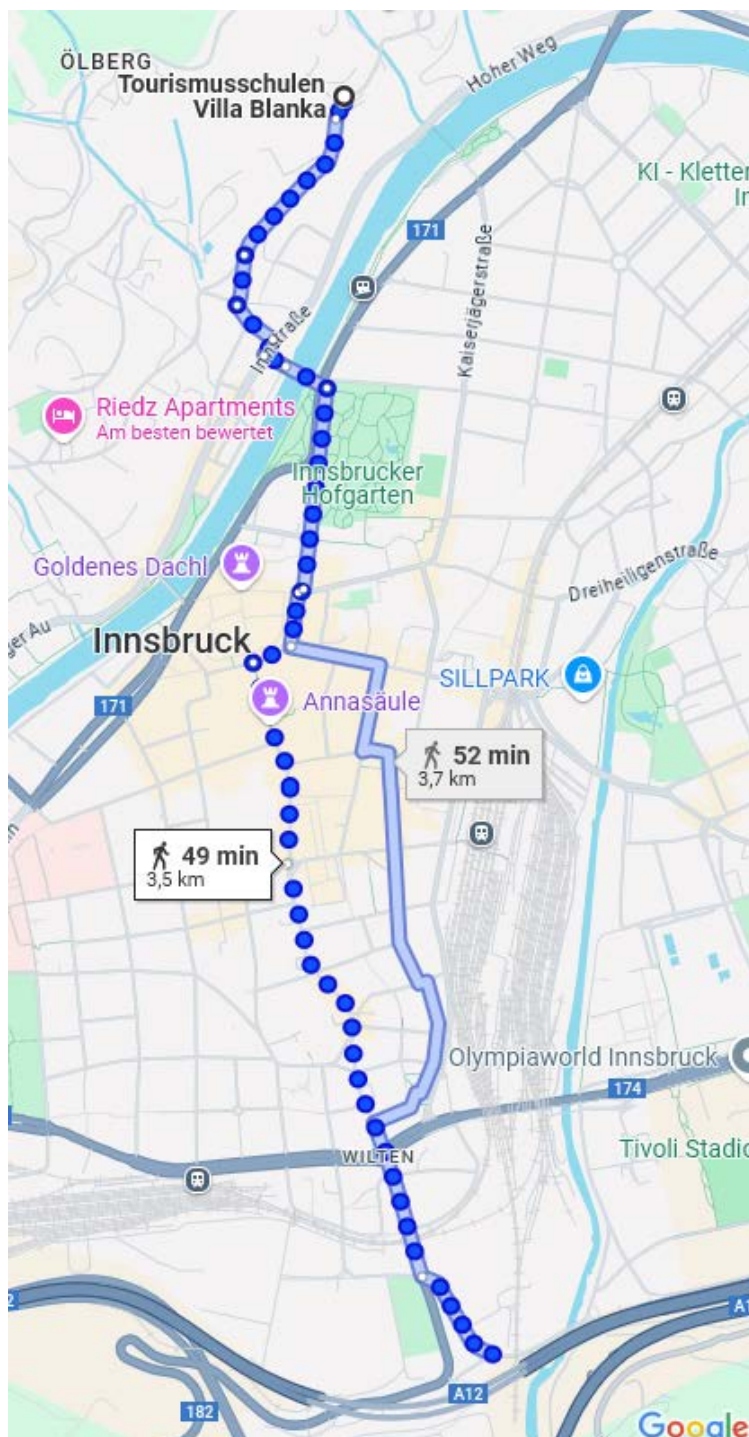
W Marktplatz Montag - Freitag (wenn Schultag)

Alpenzoo	06:22	06:37	07:07	07:22		07:45	08:07	08:22		16:22	16:37	16:52		19:22	19:53	20:23	20:53	21:08	21:23
Villa Blanka	06:23	06:38	07:08	07:23	alle	07:46	08:08	08:23	alle	16:23	16:38	16:53	alle	19:23	19:54	20:24	20:54	21:09	21:24
Schloss Büchsenhausen	06:24	06:39	07:09	07:24	7-8	07:47	08:09	08:24	30	16:24	16:39	16:54	30	19:24	19:55	20:25	20:55	21:10	21:25
Schmelzergasse	06:26	06:41	07:11	07:26	Min	07:48	08:11	08:26	Min	16:26	16:41	16:56	Min	19:26	19:57	20:27	20:57	21:12	21:27
Innstraße	06:27	06:42	07:12	07:27		07:49	08:12	08:27		16:27	16:42	16:57		19:27	19:57	20:27	20:57	21:12	21:27
Marktplatz	06:29	06:44	07:14	07:29		07:52	08:14	08:29		16:29	16:44	16:59		19:29	19:59	20:29	20:59	21:14	21:29

From Villa Blanka to Bierstindl, Klostersgasse 6, 6020 Innsbruck

by foot ca. 49 minutes

by bus ca. 35-45 minutes



18:23	Innsbruck Villa Blanka	
	Stadtbus W → Innsbruck Marktplatz 6 Min., 4 Halte	▼
18:29	Innsbruck Marktplatz	Innrain
	Umsteigezeit 5 Minuten (183 m)	▼
18:42	Innsbruck Terminal Marktplatz	
	Tram 1 → Innsbruck Bergisel 10 Min., 5 Halte	▼
18:52	Innsbruck Stubaitalbahnhof	Pastorstraße
	Fußweg 2 Minuten (104 m)	▼
18:54	Klostergasse, 6020 Innsbruck	

18:24	Innsbruck Villa Blanka	
	Fußweg 17 Minuten (1,3 km)	▼
18:41	Innsbruck Mühlauer Brücke	Falkstraße
	Tram 1 → Innsbruck Bergisel 21 Min., 14 Halte	▼
19:02	Innsbruck Stubaitalbahnhof	Pastorstraße
	Fußweg 2 Minuten (104 m)	▼
19:04	Klostergasse, 6020 Innsbruck	

● 18:30	Innsbruck Villa Blanka	
	Fußweg 11 Minuten (802 m)	▼
● 18:41	Innsbruck Schmelzergasse	
	Regionalbus 501 → Innsbruck Hauptbahnhof 8 Min., 4 Halte	▼
● 18:49	Innsbruck Leopoldstraße	
	Fußweg 13 Minuten (1,0 km)	▼
● 19:02	Klostergasse, 6020 Innsbruck	

● 18:53	Innsbruck Villa Blanka	
	Stadtbus W → Innsbruck Marktplatz 6 Min., 4 Halte	▼
● 18:59	Innsbruck Marktplatz	Innrain
	Umsteigezeit 5 Minuten (183 m)	▼
● 19:12	Innsbruck Terminal Marktplatz	
	Tram 1 → Innsbruck Stubaitalbahnhof 8 Min., 5 Halte	▼
● 19:20	Innsbruck Stubaitalbahnhof	Pastorstraße
	Fußweg 2 Minuten (104 m)	▼
● 19:22	Klostergasse, 6020 Innsbruck	

●	18:45	Innsbruck Villa Blanka	
		 Fußweg 11 Minuten (802 m)	▼
●	18:56	Innsbruck Schmelzergasse	
		 Regionalbus 501 → Innsbruck Hauptbahnhof 4 Min., 2 Halte	▼
●	19:00	Innsbruck Terminal Marktplatz	
		 Umstieg	▼
●	19:02	Innsbruck Terminal Marktplatz	
		 Tram 1 → Innsbruck Bergisel 10 Min., 5 Halte	▼
●	19:12	Innsbruck Stubaitalbahnhof	Pastorstraße
		 Fußweg 2 Minuten (104 m)	▼
●	19:14	Klostergasse, 6020 Innsbruck	