

Padua Space Quantum Information 2026 Workshop

Wednesday 20/5/2026		Thursday 21/5/2026		Friday 22/5/2026	
9:00	Registration	9:00	Keynote: Fabian Steinlechner	9:00	Keynote: Christian Fuchs
9:10	Welcome from the Chairs		High-dimensional quantum communication in free space		Optical Link Technologies for Satellite based Quantum Key Distribution
9:15	Keynote: Giuseppe Vallone	9:30	Talk: Patrick Ledingham	9:30	Talk: Siddarth Joshi
	Long-distance quantum communication in Space		Ground-Station Quantum Memory for Space Quantum Communications		Space Platform for Optical Quantum Communication (SPOQC)
9:45	Talk: Tristan Valenzuela-Salazar	9:45	Talk: Daniele Dequale	9:45	Talk: Sushil Mujumdar
	CAITDM:		The QUASAR initiative: Extending quantum networks to space		Scientific ballooning capabilities at TIFR, India
	Cold atom interferometer for thermospheric density measurements	10:00	Talk: Luigi Santamaria	10:00	Talk: Daniel Rieländer
10:00	Coffee		Single photon spatial mode demultiplexing based Imaging and spectroscopy		From Academia to Industry and Real World Products
10:30	Keynote: Matthias Zimmermann	10:10	Panel: Building Blocks	10:10	Panel: OGSs and Link Diversity
	Advanced Quantum Networks:		Fabian+ Daniele		Christian + Siddarth
	Future Applications and Technology Demonstrations		Patrick + Luigi		Harald + Sushil
11:00	Talk: Rainer Kaltenbaek	10:30	Coffee	10:30	Coffee
	MAQRO	11:00	Keynote: Lukas Knips	11:00	Keynote: Simone Capeleto
11:15	Talk: Isabella Cerutti		QUBE-II - Quantum Key Distribution with a CubeSat		Quantum Information: an industrial viewpoint
	Lorentz transformations in quantum space links	11:30	Talk: Manuel Erhard	11:30	Talk: Andrea Geraldini
11:30	Talk: Frédéric Grosshans		Daylight QKD enabled by hyper- and high-dimensional entanglement		Quantum technology for secure space communications
	Quantum Satellite Networking research at Sorbonne Université	11:45	Talk: Gabriele Riccardi	11:45	Talk: Mustafa Gundogan
11:40	Panel: Basic Research in Space		Securing the Post-Quantum Era:		Space-borne quantum memories: prospects and challenges
	Matthias + Pino + Rainer + Tristan + Isabella + Fred		The Strategic Role of Satellite Quantum Key Distribution		
12:00	Lunch	12:00	Talk: Kannan Vijayadharan	12:00	Talk: Zeki Seskir
13:45	Discussion: Expected Outcomes		TBA		Collaborating Under Constraints: Industrialising Space Quantum Technologies
14:00	Keynote: Christoph Marquardt	12:10	Panel: Space Technologies	12:10	Panel: Industrialisation
	Quantum Communications from Space: Lessons Learned		Lukas + Manuel + Davide Orsucci		Simone + Andrea + Zeki + Mustafa + Gabriele
14:30	Talk: Rain Wang	12:30	Workshop Photo + Lunch	12:30	Lunch
	Boeing for a Global Quantum Internet	14:10	Bus to Sarcedo (VI) Via Trieste cross with Via G. Berchet	14:00	Workshop wrap up
14:45	Talk: Josefine Kraus		https://maps.app.goo.gl/hNqsgmS2Pc5AFDJ96	14:30	Way ahead + Conclusions, Everyone
	QUICK3 satellite:	15:30	Tour: Sarcedo Industrial Optical Plants		
	Integrated multi-path-interferometer for fundamental physics tests in LEO		Officina Stellare - ground and space telescopes		
15:00	Talk: Manik Dawar		ThinkQuantum		
	Feasibility of large-scale entanglement networks	17:30	Bus to Padua (approx. 1 hour)		
15:10	Panel: Missions	19:30	Workshop Dinner in Padua City Center		
	Christoph + Rain + Josefine + Manik		Antico Brolo (Corso Milano, 22 Padova)		
15:30	Break		https://maps.app.goo.gl/x2gpJLQky3fn5heJ6		
16:00	Posters + Reception				
18:00					