VIE-CRYPT'25: Workshop on Quantum Cryptography beyond QKD

16 - 18 June 2025



Time	16 June (Mon)	17 June (Tue)	18 June (Wed)
08:45 - 09:00	Opening Remarks		
09:00 - 09:45	Jérémie Roland Quantum weak coin flipping	Tomoyuki Morimae Quantum cryptography without one-way functions	Petros Wallden (online) Quantum attacks to lattice problems
09:45 - 10:30	Gláucia Murta Anonymous communication in quantum networks	Claude Crépeau Relativistic zero-knowledge proofs	Atul Mantri Quantum security analysis of the key-alternating ciphers
10:30 - 11:00	🖱 Coffee Break	🤭 Coffee Break	🖱 Coffee Break
11:00 - 11:45	Michal Vyvlecka Quantum dot sources for long- distance quantum internet	Paolo Villoresi Quantum communications in space as a global resource for fundamental studies and applications beyond QKD	Hua-Lei Yin Quantum digital signatures theory and its application in quantum networks
11:45 – 12:30	Mariano Lemus Oblivious transfer in quantum cryptography: an overview	Qiang Zhang Device-independent quantum random number beacon and its application	Lorenzo Coccia Device-independent randomness, quantum bounds, and sequential protocols
12:30 - 14:00	Lunch Break	🛱 Lunch Break	12:30 – 12:45 Closing Remarks 12:45 – 14:00 ☑ Lunch Break
14:00 – 14:45	Cosmo Lupo Error-tolerant oblivious transfer in the noisy-storage model	Adrian Kent (online) To be announced	14:00 但 Lab Tours
14:45 - 15:30	Paula Alonso Blanco Secure multi-party computation from entanglement-based quantum oblivious transfer in the noisy quantum storage model	Eleni Diamanti Cryptographic applications of multipartite entanglement certification	
15:30 - 16:00	Coffee Break	Coffee Break	
16:00 - 16:45	Hannes Hübel Quantum-enabled secure multiparty computation: a practical implementation of quantum oblivious transfer	Omri Shmueli (online) One-shot signatures and quantum vs. classical binding	VIE-QK-Y-P-t
17:00	🔯 😡 Poster Session		
18:00		Conference Dinner	







