

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

16 – 18 June 2025

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