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Private Algebras, Private Quantum Channels, etc

In this talk, I will discuss my ongoing work with collaborators on the development of a structure theory for a fundamental notion in quantum privacy; known in different settings as private quantum channels, private quantum codes, quantum secret sharing, private subsystems, decoherence-full subsystems, and private algebras. I'll also discuss connections with quantum error correction. Based on joint works with Jason Crann, Tomas Jochym-O'Connor, Raymond Laflamme, Rupert Levene, Jeremy Levick, Rajesh Pereira, Sarah Plosker, and Ivan Todorov.