



Contribution ID: 21

Type: **Talk**

[512] Protocols in quantum networks: communication and beyond

Wednesday, 1 September 2021 14:30 (30 minutes)

In this talk, I will discuss applications of quantum networks going beyond quantum key distribution. I will show that quantum networks can be used to perform distributed computing, both classical and quantum. Furthermore, I will present a recent experiment that shows quantum communication in a multipartite network and allows –besides security in the communication –keeping the identities of the participating parties secure. I will conclude with a discussion of experimental challenges in realizing advanced networked quantum protocols.

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Session Classification: Quantum Information and Quantum Computing

Track Classification: Quantum Information and Quantum Computing