ICFO



INSIGHT SEMINAR: Quantum Communications at Scale - An Industry Perspective

ANTIA LAMAS LINARES

October 24, 2023
15:00 to 16:00
Seminar Room

Abstract:
As quantum communications and networking increasingly become part of the conversation around real-world deployment of quantum technologies, it is worth looking into what some relevant real-world networks looks like. In this talk, I will describe some of the criteria that are often cited for practical deployments of quantum communication systems and how they fit into the reality of a hyperscaler. I will discuss how some commonly cited problems are largely irrelevant, while seemingly trivial issues become major barriers to scaling.

Biography:
Antia leads the AWS Center for Quantum Networking. She has been working in quantum communications and networking for over 20 years in academia, national labs, a

d industry. She did her PhD in Oxford building entanglement sources and was a founding PI f the Center for Quantum Technologies in Singapore. Before joining AWS, she was part of t e emerging quantum technologies startup ecosystem as Chief Quantum Scientist of SpeQtra , a company launching small satellites with entanglement sources on board for quant m communications purposes. Antia's research work has centered around photon c implementations of quantum information protocols with an emphasis on entangleme t production and security flaws in QKD systems. You can learn more about Antia at he Amazon Science profile.

Hosted by: Prof. Dr. Antonio Acin and Prof. Dr. Valerio Pruneri