

Newcastle Post-Quantum Security and Quantum Technology WORKSHOP (NEWTON-Q)

29-30 August 2024

Room G.06, The Frederick Douglass Centre, The Helix, Newcastle upon Tyne, NE4 5TG

29 August

- 09:15 – 09:45 Coffee & Registration
- 10:00 – 11:00 Prof Tim Spiller (University of York & Quantum Communication Hub): The Work Of The Quantum Communications Hub
- 11:10 – 12:10 Prof Winfried Hensinger (University of Sussex & Universal Quantum): Quantum Computing And Quantum Sensing With Trapped Ions
- 12:20 – 12:50 Dr Tracy Keys (EPSRC): EPSRC Strategy For Quantum Technologies
- 13:00 – 14:00 Lunch
- 14:10 – 14:40 Dr Luke Nicholls & Dr Christoph Karl (Quantum Design): Cryogenic Solutions For Quantum Communication Systems: Current Use Case And Outlook
- 14:45 – 15:15 Dr Daniel Shiu (Arqit): Simple And Effective Steps To Quantum Safety Today
- 15:20 – 15:50 Coffee Break
- 15:55 – 16:25 Dr Peter Leek (University of Oxford & Oxford Quantum Circuits): Tileable 3D-Integrated Superconducting Circuits For Quantum Computing
- 16:25 – 16:30 Closing Remarks And Announcements

30 August

- 09:15 – 09:45 Coffee & Registration
- 10:00 – 11:00 Dr Jonathan Bootle (IBM): High-Level Survey Of Post-Quantum Proof Systems
- 11:10 – 12:10 Dr Ngoc Khanh Nguyen (Kings College): Post-Quantum Secure Digital Signatures
- 12:30 – 13:30 Lunch
- 13:35 – 14:05 Dr Owain Brennan (Seer BI): Quantum From An Industry Perspective – Experiences From QTAP
- 14:10 – 14:40 Dr Jose Coello (Crypta Labs): Why Quantum Random Numbers Are Key To Safety Against Quantum Computers
- 14:45 – 15:15 Coffee Break
- 15:20 – 15:50 Dr Gabriel Tarsa (PQShield): Challenges Of Implementing Post Quantum Crypto Algorithms In Hardware
- 15:55 – 16:25 Dr Thomas Matheus (Cystel): Quantum Cyber Security – A Governance, Risk, Compliance Perspective
- 16:25 – 16:30 Closing Remarks And Announcements