A composite image featuring a man in the foreground wearing a VR headset and glasses, looking down. In the background, a flight information display board shows various flight details. The overall theme is technology and its impact on travel.

Ameaças e oportunidades de tecnologias emergentes



Ronan Damasco
National Technology Officer
Microsoft Brasil

A wide-field photograph of the Orion Nebula (M42). The nebula is a bright, diffuse cloud of gas and dust located in the constellation Orion. It appears as a large, luminous pink and blue region, with a dense cluster of young stars at its center. The surrounding space is filled with numerous smaller stars of various colors, set against a dark, almost black, background.

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Quantum satellite achieves 'spooky action' at record distance



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China's quantum satellite achieves 'spooky action' at record distance

By Gabriel Popkin | Jun. 15, 2017, 2:00 PM

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Home > Physics > Quantum Physics > January 19, 2018

Real-world intercontinental quantum communications enabled by the Micius satellite

January 19, 2018, University of Science and Technology of China



Illustration of the three cooperating ground stations (Graz, Nanshan, and Xinglong). Listed are all paths used for key generation and the corresponding final key length Credit: University of Science and Technology of China



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Microsoft Azure Quantum Blog

Microsoft and Photonic join forces on the path to quantum at scale

November 8, 2023 • 3 min read



Dennis Tom

General Manager of Azure Quantum

We are excited to announce a strategic co-innovation collaboration with [Photonic Inc.](#), a company focused on building scalable, fault tolerant, and distributed quantum technologies. Our shared mission is to unlock the next stages in quantum networking and empower the quantum computing ecosystem with new capabilities enabled by our unique and complementary approaches to scalable quantum infrastructure.

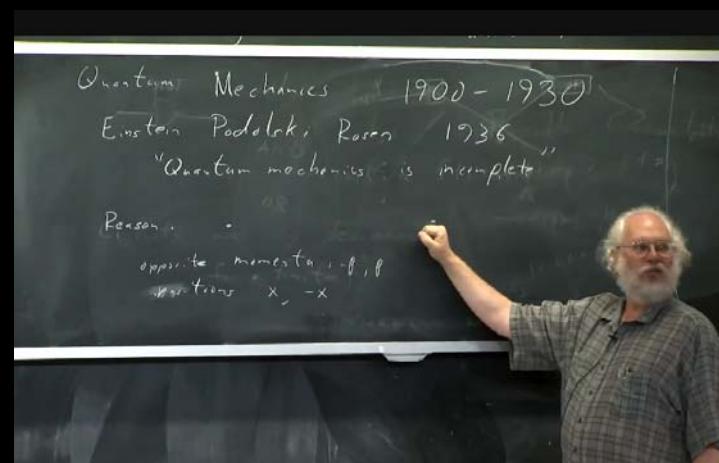
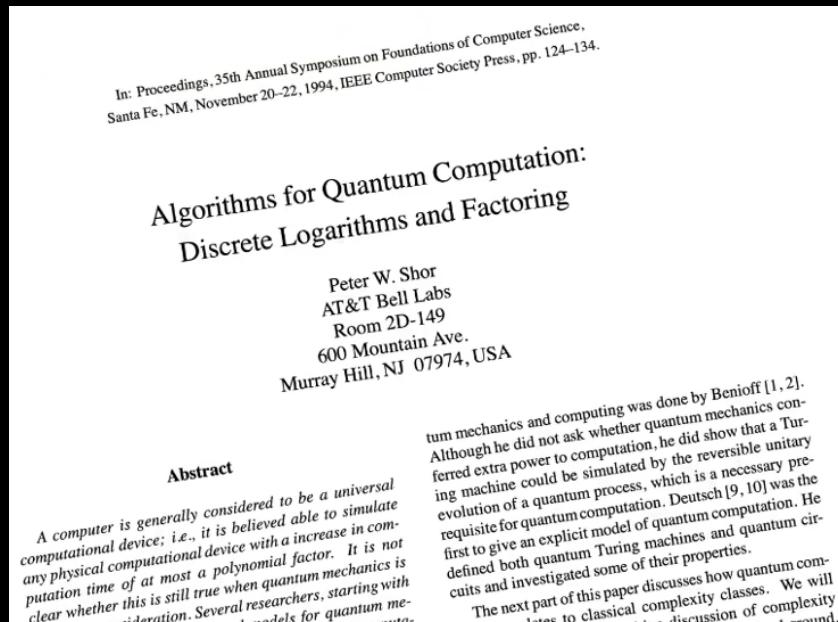
By combining Photonic's novel spin-photon architecture that natively supports quantum communication over standard telecom wavelengths with the global scale and state-of-the-art infrastructure of Azure, we will work together to integrate quantum networking capabilities into everyday operating environments. Together, we aim to deliver new technologies that will enable reliable quantum communication over long distances and accelerate scientific research and development with quantum computing devices to be integrated into [Azure Quantum Elements](#).

Criptografia



Peter Shor (1994)

Algoritmo de Shor | Fatoração de números primos



NEWS

NIST Releases First 3 Finalized Post-Quantum Encryption Standards

August 13, 2024

- NIST has released a final set of encryption tools designed to withstand the attack of a quantum computer.
- These post-quantum encryption standards secure a wide range of electronic information, from confidential email messages to e-commerce transactions that propel the modern economy.
- NIST is encouraging computer system administrators to begin transitioning to the new standards as soon as possible.



Credit: J. Wang/NIST and Shutterstock

MEDIA CONTACT

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(301) 975-4261

ORGANIZATIONS

Information Technology Laboratory
Computer Security Division
Cryptographic Technology Group

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<https://www.nist.gov/news-events/news/2024/08/nist-releases-first-3-finalized-post-quantum-encryption-standards>

MATT BURGESS SECURITY FEB 21, 2024 9:00 AM

Apple's iMessage Is Getting Post-Quantum Encryption

Useful quantum computers aren't a reality—yet. But in one of the biggest deployments of post-quantum encryption so far, Apple is bringing the technology to iMessage.



PHOTOGRAPH: SPENCER PLATT/GETTY IMAGES

https://www.wired.com/story/apple-pq3-post-quantum-encryption/?bxid=5cec2fd624c17c4c64720314&cnid=52216460&esrc=desktopInterstitial&source=Email_0_EDT_WIR_NEWSLETTER_0_DAILY_ZZ&utm_brand=wired&utm_campaign=aud-dev&utm_content=WIR_Daily_022124&utm_mailing=WIR_Daily_022124&utm_medium=email&utm_source=nl&utm_term=WIR_Daily_Active

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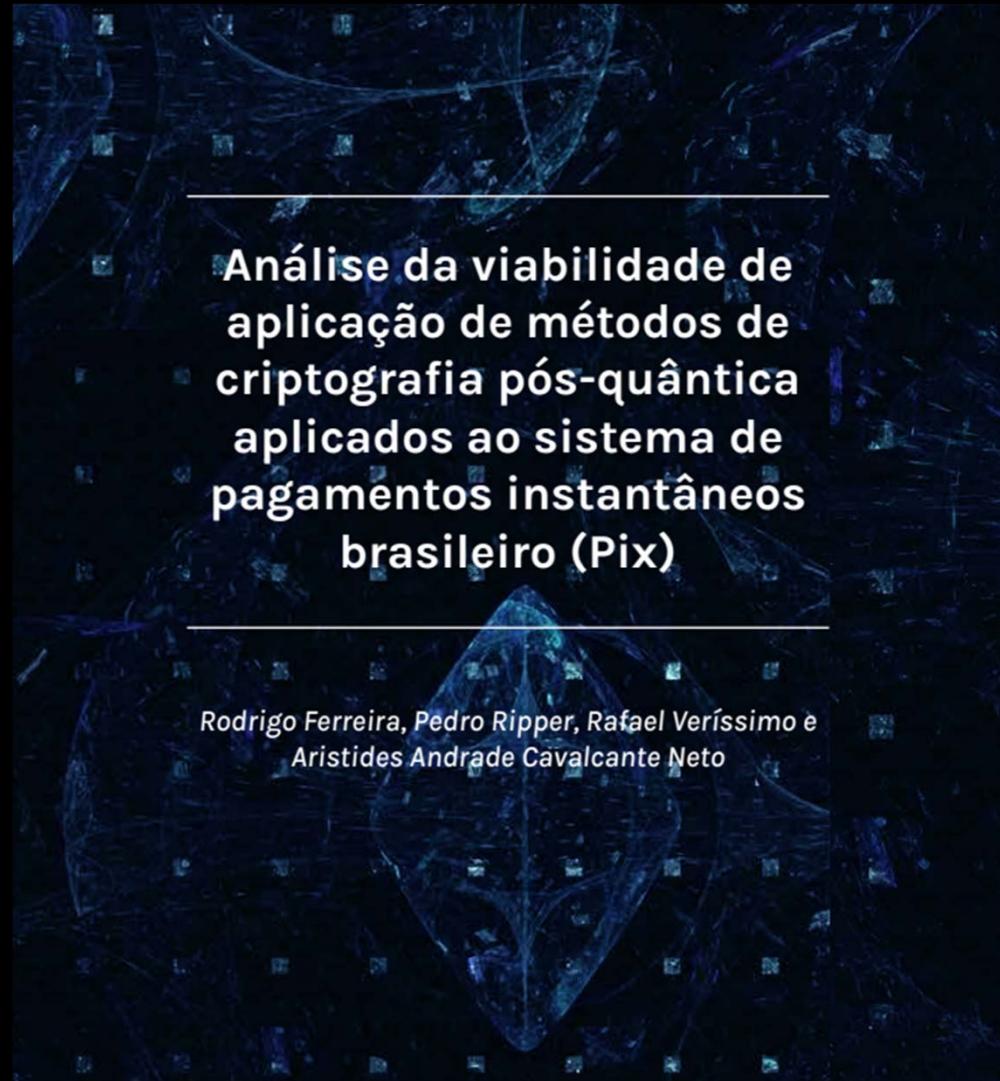
Google Chrome's new post-quantum cryptography may break TLS connections

By Sergiu Gatlan April 28, 2024 10:19 AM 0



RICHARD BLACK, RESEARCH DIRECTOR FOR MICROSOFT'S PROJECT SILICA, HOLDS A DATA STORAGE PLATTER. (MICROSOFT PHOTO)

https://www.bleepingcomputer.com/news/security/google-chromes-new-post-quantum-cryptography-may-break-tls-connections/#google_vignette



<https://fenasbac.com.br/documentos/criptografia-pos-quantica-pt.pdf>



Quantum-safe overview

Ensuring a quantum-safe future, together

From climate change to food security, quantum computing can help address some of the world's biggest challenges. However, we must remain vigilant about potential misuse of scaled quantum computers which could threaten cryptographic algorithms and secure communications. Microsoft is working with governments, global security organizations, and our partners to develop and deploy quantum-safe technologies.



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<https://embrapii.org.br/futuro-da-industria-iniciativa-oferece-r-60-milhoes-para-desenvolver-computacao-quantica/>

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GenAI está sendo empregado por agentes de ameaças



Copilot for Security aumenta a precisão e a velocidade dos analistas



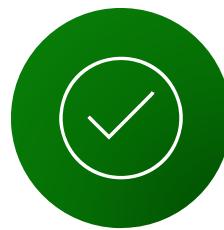
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