



(CWI.nl) (<https://www.cwi.nl/news/2019/ibm-to-deploy-quantum-proof-cryptography-co-developed-with-cwi->) Together with Centrum Wiskunde & Informatica (CWI), Radboud University and other international partners, IBM Research has developed quantum algorithms for securing data. The new algorithms, which are part of the CRYSTALS suite, are based on the hardness of mathematical problems that have not succumbed to any algorithmic attacks, either classical or quantum. The team made them open-source and submitted them to the National Institute of Standards and Technology (NIST) as a candidate for standardization. IBM has now implemented CRYSTAL in its tape drives, making it the world's first quantum computer tape drive prototype.

Centrum Wiskunde & Informatica (CWI) is the national research institute for mathematics and computer science in the Netherlands. CWI is part of NWO-I, the Institutes Organisation of the Netherlands. At CWI, cryptographer Léo Ducas is working on this research. He is a member of the Cryptology research group at CWI, headed by Ronald Cramer. This group investigates fundamental cryptographic questions from a broad scientific perspective. CRYSTALS (Cryptographic Suite for Algebraic Lattices) is developed in joint collaboration with several academic and commercial partners including ENS Lyon, Ruhr-Universität Bochum, Centrum Wiskunde & Informatica (CWI) in Amsterdam and Radboud University.



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