



Call 2019





# eDict

Experimentally-oriented Device  
Independent Cryptography

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# PROJECT PROGRESS (highlights)

-  **CHALLENGE** – quantum cryptography in principle offers security much higher than its classical counterpart but in practice problems with implementation make it much less
-  **SOLUTION** – use Device Independent Cryptography (DIC) that is immune to implementation level attacks and problems
-  **IMPLEMENTATION** – we developed new tests of nonclassicality which form the basis of DIC, that make it more feasible and novel methods for security analysis
-  **HURDLES** – we did it all in Covid times



# IMPACT (RRI aspects)



**PUBLIC ENGAGEMENT:** we helped to create Quantum Cybersecurity Hub Europe a foundation which promotes awareness of threats and solutions to security stemming from quantum technologies



**ETHICS:** the whole eDict project is about creating society in which every citizen will be able to communicate with their peers without a possibility of any government or company eavesdropping on their exchange



# QUANTERA

ERA-NET Cofund in Quantum Technologies



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