

QUANTUM COMPUTING WORKSHOP

December 9, 2021

ONLINE

Due to the rapid progress in the development of quantum technologies, the number of their applications will increase in the coming decades. These include quantum computing and its use in practice. To follow this evolution, IT4Innovations offers this workshop to its users and a wider audience to present the latest progress in quantum computing in the area of quantum machine learning, quantum variational algorithms, and the expansion of quantum computers and simulators.

Tutors:

Xavier Geoffret, Sabine Keravel, Łukasz Pawela, Piotr Gawron, Frank Leymann

Schedule:

- 09:00 - 09:05 **Welcome and Introduction**
- 09:05 - 10:05 **Atos Quantum - From learning to solving practical use cases**
- X. Geoffret, S.Keravel
- 10:05 - 10:25 **Quantum machine learning: will it work?**
- Łukasz Pawela
- 10:25 - 10:40 Break
- 10:40 - 11:00 **Introduction to quantum variational algorithms**
- Piotr Gawron
- 11:00 - 12:00 **Variational Quantum Algorithms: Origin, Potentials and Problems**
- Frank Leymann



More information & registration

events.it4i.cz/event/125



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