NITheP
National Institute for Theoretical Physics

Join us to our

NITheP Webinar Series

Mark Fingerhuth

Co-Founder and Head of R&D, ProteinQurec.

Title: Quantum open source software development

Abstract: Open source software is becoming crucial in the design and testing of quantum algorithms. Many of the tools are backed by major commercial vendors with the goal to make it easier to develop quantum software: this mirrors how well-funded open machine learning frameworks enabled the development of complex models and their execution on equally complex hardware. However, even though the diversity of projects is mesmerizing, only a few attract external developers and even many commercially backed frameworks have shortcomings in software engineering. The Quantum Open Source Foundation (QOSF) is charged to expand the role of open source software in quantum computing and improve the standardization and quality thereof. The main focus of QOSF lies on software intended for the use with current and near-term quantum computing technologies. QOSF will also pursue activities and financial support related to the exploration of upcoming open source software for fault-tolerant universal quantum computers on the scale of hundreds of logical qubits. A specific focus lies in the standardization of the low-level hardware interfaces and their compilation in order to allow for cross-compatibility of quantum programming languages. In this talk, you will learn what it means to develop scientific open-source code, get an overview of the open quantum software landscape and get to know the Quantum Open Source Foundation and its mission.

Register in advance for this webinar:

After registering, you will receive a confirmation email containing information about joining the webinar.

RSVP HERE

Date: Friday, 12th June 2020

Time: 14h00