Università degli Studi di Napoli *Federico II*

QTIH – Quantum Technologies Innovation Hub

UNINA – SeeQC Quantum Computation Joint Lab

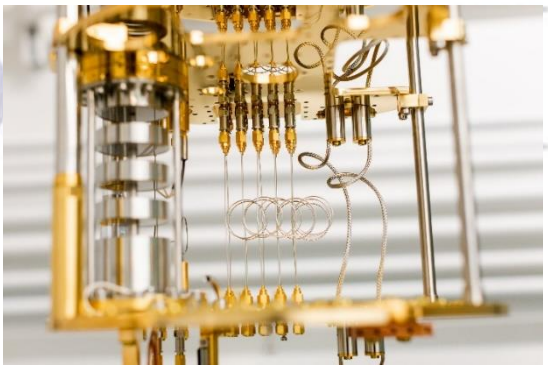
On the pathway of Antonio Barone

Venerdì 21.01.2022 *– Aula Magna Complesso San Giovanni (h16:00-h17:30)*

YouTube link at
https://youtu.be/RrfanCvUVsQ

The University Federico II is about to launch a further initiative for the promotion of innovation and technology transfer looking at the benefits of the industrial, economic and social context: the QTIH Hub - Quantum Technologies Innovation Hub within the Metrological and Technological Advanced Services Center (CeSMA) located at the campus in San Giovanni. The objective is to support the strategic research activities on Quantum Technologies (QT) active within the University, and more generally in the territory, promoting their integration and responding to the global challenge of QT. QTs have a significant place in the National Recovery and Resilience Plan (PNRR) and in the National Research Plan (PNR). SEEQC is an international leading industry for technological solutions in quantum computing: a collaboration has been active for 3 years with Federico II thanks to the commitment of O. Mukhanov (CTO & Co-Founder) and Marco Arzeo (EU Lab Manager) with an R&D laboratory at the "E. Pancini" Physics Department and a series of joint activities and projects.

The Quantum Computation Joint Lab UNINA-SeeQC will consolidate this scientific partnership aiming to increasing the impact of experimental activities in the strategic area of quantum science such as quantum computing, and to promoting the quantum ecosystem on a front wider and wider. The Laboratory, the result of a profound sharing of objectives between universities and industry, is the first in Italy to carry out a cutting-edge experimentation towards the development and testing of quantum computer architectures based on superconducting qubits. The open character of the Laboratory will give unique possibilities for interdisciplinary actions at all levels of training.



Courtesy of SeeQC

Antonio Barone

The Quantum Computation Joint Lab UNINA-SeeQC is named after Antonio Barone, who for the University of Naples Federico II was a source of absolute scientific pride for his studies on weak superconductivity and Josephson junctions, today the basis of all superconducting qubits and commercial computers of IBM, Google, Rigetti. Antonio has shown a great passion for this theme, with sometimes visionary insights even in the quantum field. Antonio lives in the school that today carries on his teaching with avant-garde scientific themes.

PROGRAM

Moderator:
Giampiero Pepe *Università degli Studi di Napoli "Federico II"*

4.00 PM

Opening
Matteo Lorito *Rector of the Università degli Studi di Napoli "**Federico II**"*

Gennaro Miele *Dean of the Dipartimento di Fisica "E. Pancini", Università degli Studi di Napoli "**Federico II**"*

The new national development programs and the Quantum Technologies

Luigi Nicolais *President of Campania Digital Innovation Hub*
*Emeritus, Università degli Studi di Napoli "**Federico II**"*

Antonio Zoccoli *President of the National Institute for Nuclear Physics*

Francesco Cataliotti *Director pf the National Institute of Optics of CNR*

Massimo Bisogno *Growth and Digital Transition Special Office, Regione Campania*

Moderator:
Francesco Tafuri *Università degli Studi di Napoli "Federico II"*

4:40 PM
The new UNINA – SeeQC Quantum Computation "A. Barone" Lab at S. Giovanni

Leopoldo Angrisani *Director of Centro Servizi Metrologici e Tecnologici Avanzati (CeSMA), Università degli Studi di Napoli "**Federico II**"*

Oleg Mukhanov *SeeQC EU, CTO and Co-Founder*

A memory of Antonio Barone

Anthony J. Legget *University of Illinois at Urbana-Champaigns*

Massimo Inguscio *Emeritus, Università* Campus *Biomedico* Roma

John Clarke *University of California at Berkeley*

Michel Devoret *Yale University*

Vladimir Kresin *University of California at Berkeley*

Conclusions

Valeria Fascione *Research, Innovation and Startup Officer, Regione Campania*

IMPORTANT. In compliance with the legal restrictions due to pandemic, participation in the event in presence can only take place with a reservation sent by e-mail by **Thursday 20 January 2022** to one of the following addresses: giovannipiero.pepe@unina.it or francesco.tafuri@unina.it. The e-mail must contain a telephone number of the applicant and the full name of any other accompanying persons.