Greetings from Prof. Leonardo Merola
Direttore Dipartimento Fisica

Greetings from Prof. Piero Salatino
Presidente Scuola Politecnica e Scienze di Base

Greetings from Prof. Gaetano Manfredi
Rettore Università di Napoli Federico II

“UNINA vs Quantum Technologies and advanced education”

15.10 Sir Anthony Leggett
Nobel Laureate 2003

Testing the limits of quantum mechanics: motivation, state of play, prospects

15.30 QUANTUM TECHNOLOGIES ACTIVITIES IN FIRENZE

Augusto Smerzi:
Useful entanglement for quantum technologies

Marco Bellini:
Non-classicality and entanglement by photon addition and subtraction

Iacopo Catani:
Quantum simulation of solid-state systems with ultracold atoms

16.15 QUANTUM TECHNOLOGIES ACTIVITIES IN CAMERINO

David Vitali:
Quantum sensing and communication with hybrid devices

Sebastiano Pilati:
Many-body simulations for adiabatic quantum optimization

17.00 QUANTUM TECHNOLOGIES ACTIVITIES IN NAPOLI

Davide Massarotti:
Macroscopic Quantum phenomena in superconducting junctions

Procolo Lucignano:
Theory and simulation of materials and devices for quantum technologies

Alberto Porzio:
Entangling different degrees of freedom of optical fields

Felice Gesuele:
2D van der Waals heterostructures for light-matter-states engineering and guiding

17.45 CONCLUSIONS

In 2018 the University Federico II, the University of Camerino and CNR have launched a new common PhD program in Quantum Technologies (QT). This new program, originated from the awareness of the need of an interdisciplinary background on QT, will cover quantum computation, quantum networks and communication, quantum simulation, quantum sensors and metrology.

http://www.fisica.unina.it/presentazione-dottorato-qt

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