



University of Crete
Department of Physics

Physics Colloquium

Wednesday, 3 June 2026 | 16:00 – 17:00, Seminar Room 3rd Floor

Quantum information processing “stack”: from qubits to algorithms and back

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ABSTRACT

While quantum processors have progressed immensely over the last decade, they still face significant hurdles such as short coherence times and high error rates. As a result, they are not able to compete with classical information processing in solving problems of practical interest unless big advances take place both at the bottom of the stack (hardware, control) and at the top (algorithms). I will discuss my group’s contributions across the quantum information processing stack, from the control of qubits to quantum algorithm development.
