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## INTRODUCTION TO QUANTUM COMPUTING (cont'd): ADVANCED Q.C.

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Jose Ignacio Latorre got his PhD in Particle Physics at University of Barcelona. He was a Fullbright Fellow at MIT (USA) and a postdoc at the Niels Bohr Institute in Copenhagen. He then became associate professor at the Univ. Barcelona and, later, full professor in Theoretical Physics.

Prof. José Ignacio Latorre is Chief Researcher of the Quantum Research Centre at the Technology Innovation Institute TII (Arab Emirates)

Prof. Latorre was appointed Director of the Centre for Quantum Technologies (CQT) in July 2020. He is also Professor and Provost's Chair in the National University of Singapore's (NUS) Department of Physics.

A leading figure in particle physics and quantum information, José Ignacio joined CQT, NUS from the University of Barcelona. He has been heading a research group at the Barcelona Supercomputing Center to build the first quantum processor in Spain. José Ignacio is also the founder of the Centro de Ciencias de Benasque Pedro Pascual, a Spanish scientific facility that is well known in the quantum information community for hosting workshops and conferences.

A Full Professor of Theoretical Physics at the University of Barcelona (on leave), he has been associated with several prestigious research institutions including the Niels Bohr Institute (Copenhagen, Denmark), Centre for Quantum Technologies (Singapore), CERN (Geneva, Switzerland), the Dutch National Institute for Subatomic Physics - Nikhef (Amsterdam, the Netherlands) and Massachusetts Institute of Technology (Cambridge, Massachusetts, USA).

He was also a founder of the NNPDF collaboration that performs research in the field of high-energy physics and develops artificial intelligence technology for the treatment of all data coming from the high-energy physics laboratory LHC, at CERN.

Prof. Latorre has authored over 130 research papers in international journals on particle physics and quantum information and three books on quantum mechanics and the ethics of artificial intelligence. He is actively engaged in outreach - giving motivational talks to young people everywhere, organising large-scale scientific exhibitions and editing science documentaries. Prof. Latorre was also associated with multiple startups, including a spinoff from the University of Barcelona. He consults national research agencies as Advisor.

**Presenter:** Prof. LATORRE, Jose Ignacio (National University of Singapore, NUS, Sg, and University of Barcelona, SP)

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