

NITheCS and the Department of Physics at Stellenbosch University jointly present a

COLLOQUIUM: Minimal operational approach to quantum non-Markovianity

Dr Adrian Budini (Centro Atómico Bariloche, Argentina)

Friday, 17 March 2023 | 15h00 – 16h00 SAST | Attend online

ABSTRACT

We present an ‘minimal’ operational approach, which is based only on three consecutive system measurement processes that allow one to determine: (i) the presence (or absence) of memory effects, (ii) the developing of bidirectional (physical) information flows between the system and the environment, (iii) and relating measurement invasiveness with the presence of memory effects (measurement conditions for violations of Leggett-Garg inequalities due to memory effects).

BIOGRAPHY

Dr Adrian Budini studied physics at Universidad Nacional de Córdoba, Argentina. He realised a PhD in physics at the Quantum Optics Group of Universidade Federal de Rio de Janeiro, Brazil. After a Post Docs in Germany (Max Planck Institute) and Spain he is a researcher in physics at Centro Atómico Bariloche, Argentina. His main research interests are open quantum systems and classical stochastic processes.



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