

Free entrance

With live music

The **Physics Department** of the University of Crete and the **Crete Centre for Quantum Complexity and Nanotechnology (CCQN)** are presenting:



The Nature of Temporal Fluctuations in Musical Rhythms

Professor Theo Geisel

Max Planck Institute for Dynamics and Self-Organization, Faculty of Physics, University of Göttingen & Bernstein Center for Computational Neuroscience Göttingen

Even the best musicians do not play rhythms with perfect precision. Slight deviations from an ideal beat pattern are a fundamental characteristic of music played by humans. In this public evening lecture Theo Geisel discusses the statistical laws underlying rhythmic fluctuations and their role in musical perception. Based on these findings one can make computer generated music sound more human. Assisted by the **Municipality of Heraklion String Quartet** and with audio examples from the Art of Fugue to stochastic music he highlights the general role of long range correlations in music and its perception by the information processing in our brains.



Heraklion, University of Crete, Amphitheatre of Student Center Building

Friday 6 September 2013 at 6:30pm

The lecture is part of the Kick-off meeting of the Crete Centre for Quantum Complexity and Nanotechnology (CCQN)



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