LABORATORY FOR COMPUTER SCIENCE

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PHYSICS OF COMPUTATION SEMINAR

Date: Tuesday, September 13, 1994
Time: Refreshments at 4:00pm
Talk at **4:15pm**
Place: 37-212

Decoherence and Quantum Computing

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Quantum Computing is one of the more interesting applications of quantum mechanics. However in order to build practical devices, the various possible sources of error must be analysed. One of these is the tendency of any system to affect the external world. This propensity leads to decoherence, the loss the quantum interference so crucial to the efficiency of quantum computers. This talk will examine the issue of quantum decoherence and its effect on the possibility of building quantum computers.

Host: Norm Margolus

This talk is part of a seminar series on adapting computers and computations to the constraints of, and opportunities afforded by, microphysics; and on the development and application of the physical theory of computation and information. If you would like to receive electronic notice of these seminars, send email to "poc@im.lcs.mit.edu."