PRITZKER SCHOOL OF MOLECULAR ENGINEERING

THE UNIVERSITY OF CHICAGO

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Seminar:

Quantum Logic Synthesis: Radix-2 and Beyond

Wednesday, Aug 7 at 11 a.m. in ERC 201

Quantum computing is quickly advancing as physical quantum technology
increases in size, capability, and reliability. In order to fully harness the
power of a general quantum computer, or an application-specific device,
compilers and techniques must be developed that optimize specifications
and map them to a realization for a specific gate set or architecture. In this
seminar, methods for compiling quantum informatics
algorithms into executables will be discussed. Additionally, the synthesis of
circuits for higher dimension quantum entanglement will be presented.