



PHYSICS & ASTRONOMY WEEKLY CALENDAR

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WEEKLY CALENDAR

October 31, 2011

Departmental Colloquium

Thursday, 3:40 PM, November 3, 2011
109 Nicholson Hall

"Random Walks in Quantum Information"

Vivian Kendon
University of Leeds

Host: Jonathan Dowling

• *Refreshments served at 3:15 PM in 232 (Library) Nicholson Hall* •

Random walks are used for many purposes in physics, so it is no surprise that quantum information theorists created a quantum version. The surprise is that it has some very different properties, and these can be put to work in faster algorithms. I will give a gentle overview of quantum versions of random walks in algorithms, experiments, and as a model for quantum enhanced transport processes, such as might play a part in photosynthesis.