

# PHYSICS AND ASTRONOMY COLLOQUIUM

**Greg Landsberg, Ph.D.**  
Brown University

Searches for Quantum Gravity at the LHC

The LHC physics program has been fantastically successful, culminating in the discovery of the last missing piece of the standard model - the long sought Higgs boson. Yet, no new physics beyond the standard model has been observed so far. In this talk, I'll cover an exciting possibility of low-energy quantum gravity, which could address some of the deficiencies of the standard model, and at the same time can open a completely new universe with additional spatial dimensions, possibility of experimental string theory studies, and perhaps one of the most interesting possibility - production of miniature black holes at the LHC.



**THURSDAY, MARCH 6, 2014 | 4:00 PM | HAWKING AUDITORIUM**



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TEXAS A&M UNIVERSITY