

Extra Dimensions

Dr. Satya Nandi

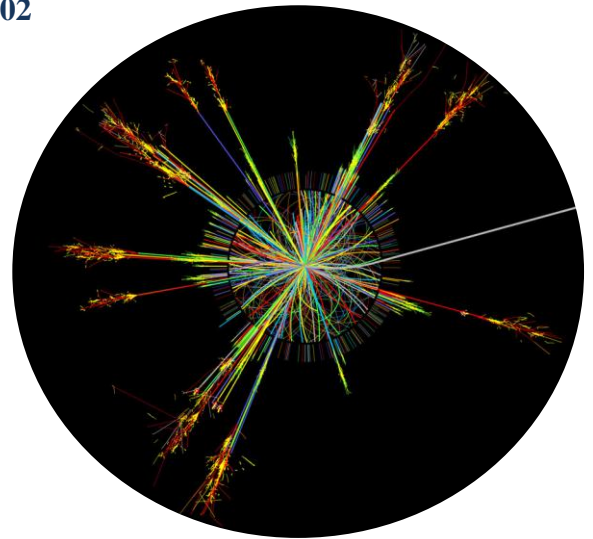
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Oklahoma State University, Stillwater, OK 74075

4:00 to 5:00 pm, Thursday, September 24, 2009

Kemper Hall Room 102

Current theoretical developments, motivated by **string theory**, have led to the idea that there may exist extra space-like dimensions beyond the familiar X, Y and Z. These extra dimensions must be of finite size, and current experiments allow their sizes to be as large as sub-mm. In this talk, I will discuss the theoretical implications, current experimental limits, and as well as, how the existence of such extra dimensions can be probed by gravitational, astrophysical and especially at the high energy collider experiments at the **Large Hadron Collider** (LHC).



Simulated production of a black hole.



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