

THE SECRETS OF GRAVITY

Dr. Paul McGrath

A century ago, Einstein revolutionized our understanding of the universe with his new theory of gravity and spacetime. Since then, fantastic ideas like the Big Bang, dark energy, and the existence of blackholes have been revealed. In this talk, I will explore the puzzle pieces that Einstein put together to discover this new theory and explain how exactly it changed our picture of the universe bringing us to our present day understanding. However, the journey will not stop there. I believe that Einstein's theory is still holding on to a very important secret about the inner workings of nature — a secret which we will need to carefully decipher the meaning of if we ever wish to construct a theory of everything.



Dr. Paul McGrath is an Assistant Professor in the Department of Physics & Computer Science at Laurier and an Adjunct Professor in the Department of Physics & Astronomy at the University of Waterloo. He earned his Ph.D. in gravitational physics at UW and his M.Sc. in particle physics at the University of Alberta.

TUESDAY, MARCH 10, 2015

4:00 PM | N1046 - SCIENCE BUILDING

Wilfrid Laurier University, 75 University Ave. W., Waterloo

Physics & Computer Science Seminar Series Co-ordinators: Ilias Kotsireas, Paul McGrath and Marek Wartak

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