

July 23-24, 2015

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- [Arlington Weather](#)
- [Previous Conferences](#)

## Keynote Address

### Dr. Jaehoon Yu: Discovery of the God Particle and Makings of Dark Matter Beams

#### ABSTRACT

Dr. Jaehoon Yu, professor of physics at the University of Texas at Arlington, will discuss the discovery of the Higgs particle at the Large Hadron Collider (LHC) at the European Laboratory for Nuclear and Particle Physics Research (CERN) near Geneva, Switzerland. He will also cover the complex computing grid technology that has contributed significantly to the timely analysis of the data through communication, and the collaboration among scientists that arose from the data network.

#### DR. JAEHOON YU PROFILE

Dr. Jaehoon Yu is a professor of physics at the University of Texas at Arlington and is an experimental high energy particle physicist who has been playing leadership roles in several large scale (600–3000 members) experiments. Two most recent experiments are the ATLAS in the European Center for Nuclear and Particle Physics (CERN), Geneva, Switzerland and the Long Baseline Neutrino Experiment, the \$1B U.S. flagship experiment to be completed in Fermi National Accelerator Laboratory near Chicago by 2025. Dr. Yu and his team contributed to the discovery of the Higgs particle (aka the God particle) in 2012 at CERN. This discovery, however, will help to understand the visible matter that makes up only 5% of the universe. The rest of the universe is thought to be made of 25% dark matter and 70% dark energy. Dr. Yu is leading a new accelerator-based experimental method to make beams of dark matter, which will allow us to study them in detail so that we can use them to make our daily lives better.



— Dr. Jaehoon Yu