

**Science Outreach – Athabasca  
presents...**

# **Elementary Particles and Radiation**



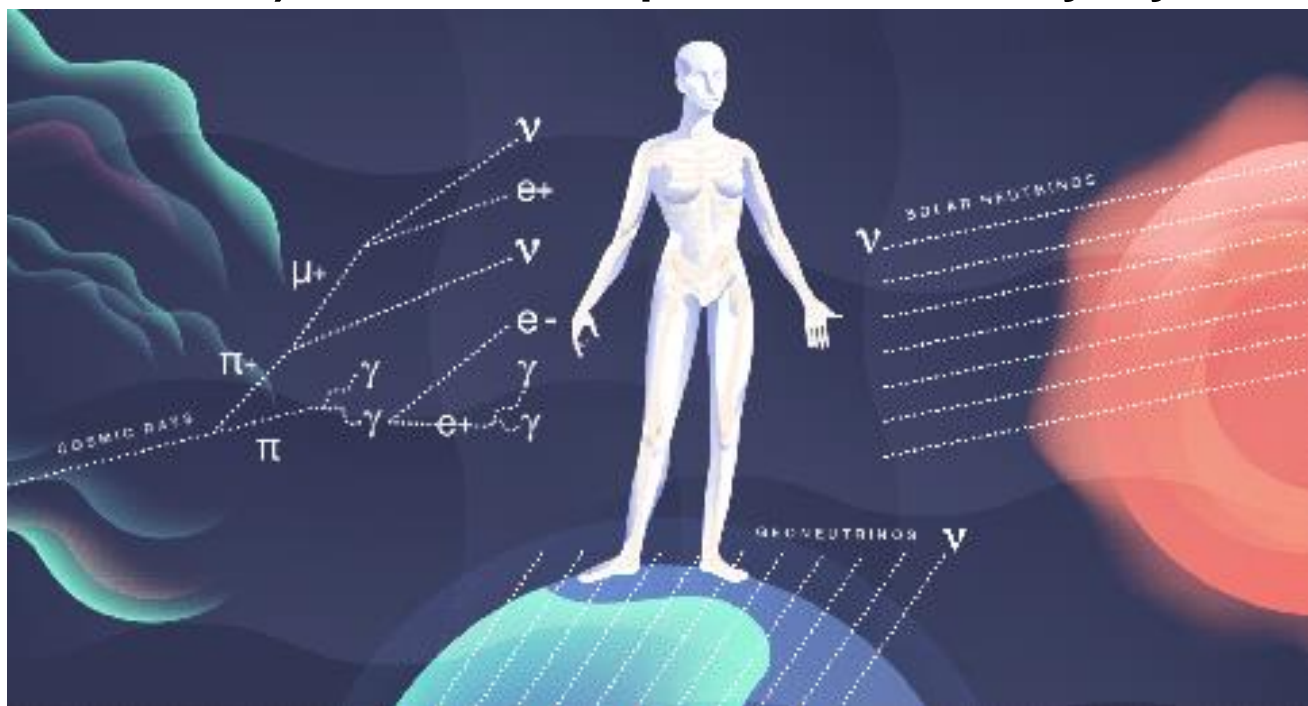
**Speaker: Dr. Rafael Hakobyan**  
Sr. Science Lab Manager, Science Lab  
Faculty of Science and Technology  
Athabasca University

**Date: Wednesday, January 15, 2020**

**Time: 7:00 PM to 8:30 PM**

**Place: Athabasca University  
Governing Council Chambers**

Elementary particles also called subatomic particles are the fundamental constituents of all matter. *Radiation is the emission or transmission of energy in the form of waves or particles.* The Standard Model proposed since 1970 is a theory of fundamental particles and how they interact. It describes the universe in terms of matter and force based on 17 fundamental particles. The last 17th particle is experimentally discovered in 2012 (Nobel Prize in 2013, award winner: Francois Englert and Peter Higgs) at CERN (Switzerland) and is called God particle or Higgs boson. This presentation will focus on CERN experiments devoted to finding Higgs boson, as well as on the radiation (particle and electromagnetic radiations) that we are exposed in our everyday lives.



**Free community event! Refreshments & Door prizes!**

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