



WINTER 2017

Venue:
T13 127

Thursday, April 6 from 9:30 - 10:10 AM

ENGINEERING

PHYSICS

SEMINAR SERIES

Department of Engineering Physics in
the Faculty of Engineering at
McMaster University, Canada.

**Dan
FitzGreen**

Laboratory Technician
Department of Engineering Physics, McMaster University



Antimatter Physics at CERN:

THURSDAY APRIL 6 2017

Antihydrogen is a bound state of a positron and antiproton. According to the Standard Model of Particle Physics, the atomic spectra of hydrogen and antihydrogen should be identical to any precision. Difference in the spectra of these atoms at any level would indicate physics beyond the Standard Model, and may explain the asymmetry between matter and antimatter currently present in our universe. In this talk, I will discuss how positrons and antiprotons are produced and how they are combined to create antihydrogen, and discuss some of the results presently coming out of the various antihydrogen groups at CERN.