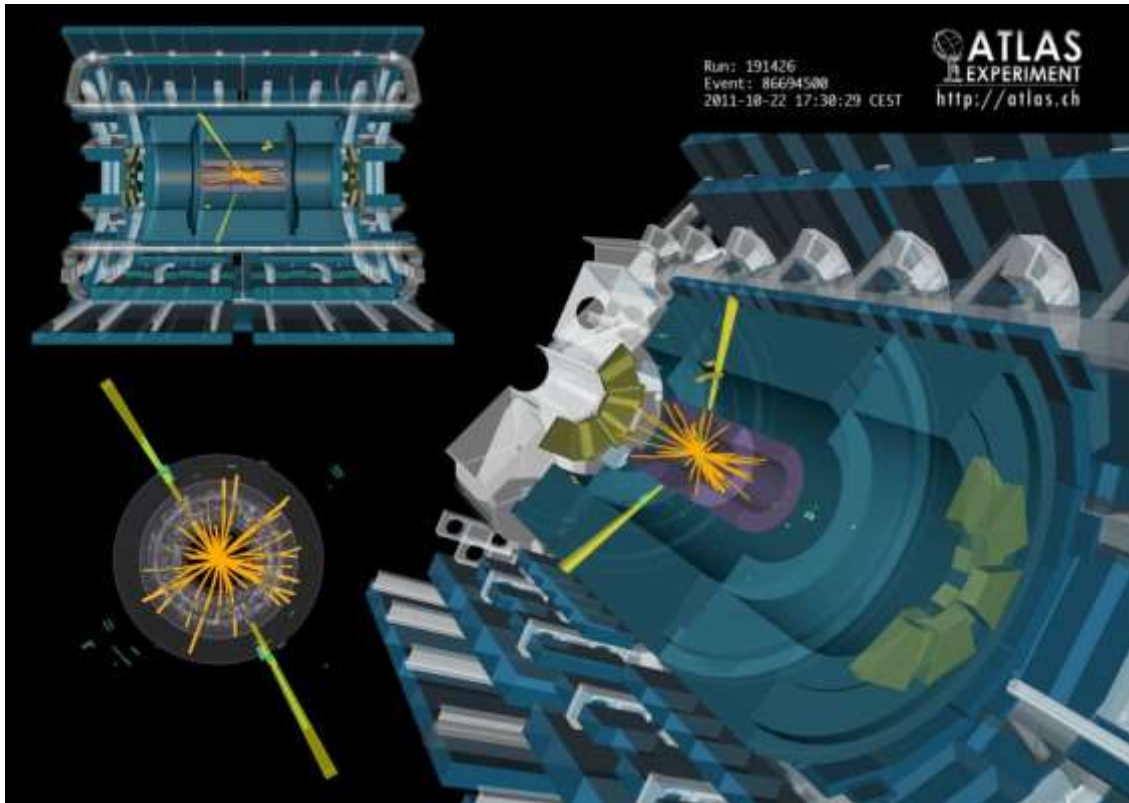


Café Scientifique Headingley

Monday 5 July 2021 at 7:30pm

The Big Bang Experiment - Pushing the Boundaries of Knowledge at the Large Hadron Collider

by Antonella De Santo



Outline: The Large Hadron Collider is the world's largest and most powerful particle smasher. Based at CERN, the European Organization for Nuclear Research, it recreates conditions similar to those that existed in our universe shortly after the Big Bang. Following the momentous discovery of the Higgs boson, the ATLAS experiment at the LHC is searching for signals from new phenomena beyond the Standard Model of Particle Physics. The talk will be about some of the highlights from this exciting journey.

Professor Antonella De Santo became the first female Professor of Physics at the University of Sussex in 2013, having joined the university in 2009 to set up a new research group working on the ATLAS experiment at CERN's Large Hadron Collider. Prior to that, she had taught and conducted research at: Royal Holloway, University of London; the University of Oxford; CERN; and the University of Pisa, where she had also obtained her PhD in the late 1990s, working on the search for neutrino oscillations at CERN. In 2017 Antonella was awarded a Royal Society Wolfson Research Merit Award.



Venue: by ZOOM