

## Physics at the Large Hadron Collider in the post Higgs boson discovery era

With the discovery of the Higgs boson in 2012, the Standard Model (SM) of elementary particles is now complete – or is it? Indeed, there remains substantial circumstantial evidence for new physics beyond the SM. In this talk, I will describe the Standard Model and the very special role of the Higgs boson in it, bring up the questions and the observed patterns which the SM fails to explain, and show how many of these questions can be and are being tackled at LHC. I will conclude with outlining the LHC operation program over the next two decades and discuss the prospects for building a much larger collider in future.



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Friday April 14, 2017  
4:00-5:00 PM  
OPS, Room 140

Light refreshments will be served