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Search for the Higgs Boson AUNGSHUMAN ZAMAN, Stony Brook University — Our present understanding of the universe at particle level has been shaped by different symmetries and gauge theories. The standard model of particle physics does not incorporate gravity but it does place the other three fundamental interactions neatly in one structure. And it needs the hypothetical Higgs particle and the process of spontaneous symmetry breaking to do so. So existence of Higgs particle is of critical importance for standard model. In the talk, we will briefly explain the theoretical necessity of Higgs boson. Then we will look into the advances made in the field of detecting Higgs and different strategies employed by the present accelerators to detect and measure the mass of Higgs boson.

[X] Prefer Oral Session
[ ] Prefer Poster Session

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