APR21-2020-000107

Abstract for an Invited Paper
for the APR21 Meeting of
the American Physical Society

Physics Beyond the Standard Model at the LHC

EVA HALKIADAKIS[1], Rutgers University, New Brunswick

The Large Hadron Collider (LHC) at the CERN laboratory is the world's most powerful particle accelerator. The LHC has had a successful and highly productive Run 2 era (2015-2018), colliding protons with a center-of-mass energy of 13TeV, and breaking data-taking records by collecting an unprecedented amount of data at these high energies. The LHC experiments have an extensive program of searches for physics beyond the Standard Model, exploring uncharted territory at the energy frontier. I will present highlights of the LHC program of new physics searches using the 13 TeV data in Run 2.

[1]on behalf of the LHC experiments