

Z' Boson at the LHC and at Future Hadron Colliders

S SAHOO

Department of Physics, National Institute of Technology
Durgapur-713209, West Bengal, India
E-mail: sukadevsahoo@yahoo.com

Received: 11.12.2013 ; Revised: 2.1.2014 ; Accepted: 18.01.2014

Abstract : Z' bosons are a feature of many models of physics beyond the standard model (BSM) and their discovery could possibly be the first evidence for new physics. It is possible to detect these bosons in the leptonic Drell-Yan mode, hence it is expected that the LHC would be able to see evidence for a Z' boson. In this article, we discuss the discovery possibility of Z' boson at the LHC and at future Hadron Colliders briefly.

Keywords: Models beyond the standard model; Grand unified theories; Z' boson.

PACS Nos. 12.60.-i; 12.10.-g; 14.70.Hp

[\[FULL PAPER \]](#)