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Charged Higgs Bosons in different Left-Right Models at the LHC

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While the usual LRSM is widely studied and well explored, there are alternate possibilities within the left-right models which are not given enough attention. In this talk we shall focus on charged Higgs arising in different left-right models like the LRSM and ALRM, and prospects to identify them at the LHC. With additional quarks and neutral leptons present in ALRM, compared to LRSM, having direct interaction with charged Higgs bosons, their signatures at the LHC can be quite distinguishable. In particular, the mass ranges not allowed in the case of LRMS are still be possible in ALRM. We shall give an overview of charged Higgs searches in at the LHC, and present detailed analysis of possibilities within ALRM.

Keyword-1

Charged Higgs

Keyword-2

LHC

Keyword-3

Alternate Left-Right Model

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