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Left-Right Symmetric Models in light of new physics signals and leptogenesis

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The left-right symmetric gauge theories have been one of the most popular extensions of the Standard Model over past three decades. These theories naturally address several important issues such as neutrino mass and matter-antimatter asymmetry of the Universe which can not be accounted for in the Standard Model. Recently, several potential new physics signals reported by ATLAS and CMS collaborations at the LHC and the B-physics experiments have provided a window of opportunity to put these theories on trial. In this talk, I will discuss the possibilities of addressing one or more of these potential new physics signals within the framework of left-right symmetric theories and the consequent implications on leptogenesis which is one of the most attractive mechanisms to address the baryon asymmetry of the Universe.

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