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Discovery Potential of LHC for Extended Gauge Symmetries

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Many models of physics beyond the standard model are based on extended gauge symmetries and predict the existence of new heavy particles, often at the TeV scale. Such particles include heavy W and Z bosons, doubly charged higgses, heavy majorana neutrinos, leptoquarks and heavy fermions. The discovery potential of the ATLAS experiment, which will start taking data at the LHC in 2007, will be presented.

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