

Portoroz 2013: Probing the Standard Model and New Physics at Low and High Energies

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Combining Z' and W' searches at the LHC

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I will discuss an effective Lagrangian description of new vector bosons giving resonant leptonic signals at the LHC. Gauge invariance imposes relations on the couplings and masses of charged and neutral vector bosons. I will show that a combined analysis of di-lepton and lepton-plus-missing-energy data takes advantage of such relations and improves the existing limits.

Author: PEREZ-VICTORIA, Manuel (University of Granada)

Presenter: PEREZ-VICTORIA, Manuel (University of Granada)

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