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Hunting New Physics in Top Pair Production

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Following recent intriguing experimental results on top quark pair production from the Tevatron I review the present status of new physics explanations put forward to explain the experimental observations deviating from standard model predictions. All proposals face severe constraints from precisely measured flavor, electroweak and high pt collider observables. Possible future measurements at the LHC able to discern among the various proposals are also discussed.

Author: KAMENIK, Jernej (Jozef Stefan Institute)

Presenter: KAMENIK, Jernej (Jozef Stefan Institute)

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