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Multi-tops at the LHC

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One of the most interesting sectors to look for new physics at the LHC is that of the top quark, both for theoretical and phenomenological reasons. A number of possible final states involving the top have been considered by the experimental collaborations and they have successfully constrained many Beyond the Standard Model scenarios. In this presentation, I will describe a study intended to address the question of how the occurrence of much more exotic final states, namely many-top events, can be constrained using existing analyses, and whether they could be improved using a different selection procedure. I will show that current data allows to put constraints on the production of six-top final states in a toy model created for the purpose of studying this signature and that this is the multiplicity limit one can hope to reach with Run 1.

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Classification de Session: Posters [exhibited during the Rencontre]