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Top quarks as a probe for heavy new physics

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The heaviest fermion is expected to couple strongly to new physics and appears therefore a natural probe in many BSM scenario. Moreover, top physics has now enter in a precision era thanks to the huge amount of top quarks produced at hadron colliders, advanced experimental methods and accurate theoretical predictions. In this talk, we will used effective field theory to search for heavy new physics in a model independent way. This method can also be used to quantify the room left for new physics if no deviation from the SM is found.

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