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Top quark production at the LHC

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Twenty years past its discovery, the top quark continues attracting great interest as we continue to unveil its properties. An overview of measurements performed by the ATLAS and CMS experiments at the CERN LHC, in the domain of top physics will be presented. The latest measurements of top quark production rates via strong and electroweak processes are reported and compared to different perturbative QCD predictions. Fundamental properties, such as mass or couplings of the top quark, as well as re-interpretations seeking for beyond the standard model contributions in the top quark sector, are extracted from the measurements reported. In each case we attempt to highlight the main prospects to be expected for the on-going Run 2 of the LHC.

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Classification de Session: Standard Model

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