New physics searches in top sector at LHC

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 $m_{T^{(1)}}[{
m GeV}]$

mono-top: colored partners &

relative importance depends on the mass spectrum



Top quark couples the most strongly to the Higgs, and plays a special role for EWSB At LHC huge number of Top quark pair produced — open a new era of precision top physics LHC is the powerful tool for searching for new physics especially in top sector