

The diagram shows a process where two incoming gluons (labeled 1 and 2) interact via a gluon exchange (labeled 3) to produce a top quark (labeled 4) and an anti-top quark (labeled 5). The lines are labeled with 'g' for gluons and 't' for top quarks. The labels 1, 2, 3, 4, 5 are placed near the ends of the lines.

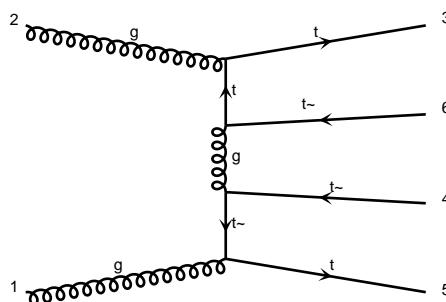


diagram 31

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=0, NPcHDD=0, NPcHG=0, NPcHGil=0, NPcHGQ=0, NPcHB=0, NPcHm=0, NPcHDA=0, NPcHDB=0, NPcHGB=0, NPcHGD=0

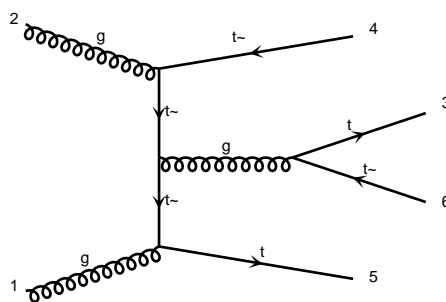
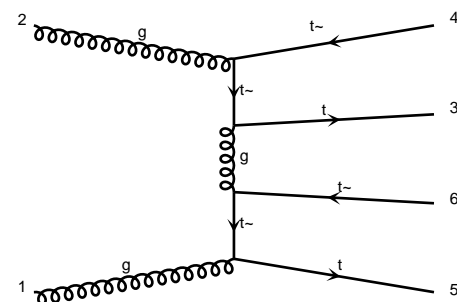
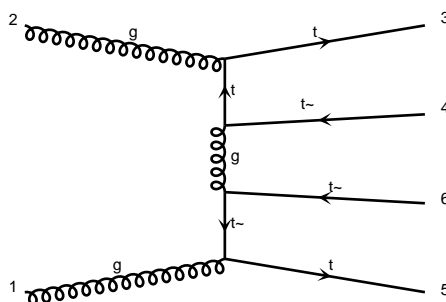


diagram 34

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=35, NPcHDD=0, NPcN=0, NPcO=0, NPcOGil=0, NPcHG=0, NPcHB=0, NPcHm=0, NPcFDAD=0, NPcFEG=0, NPcFGB=0, NPcFGL=0, NP

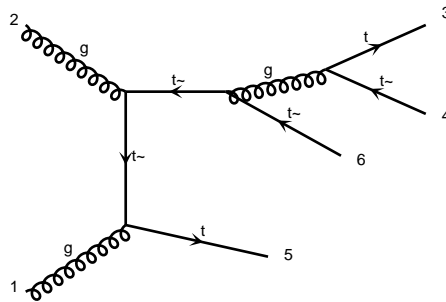
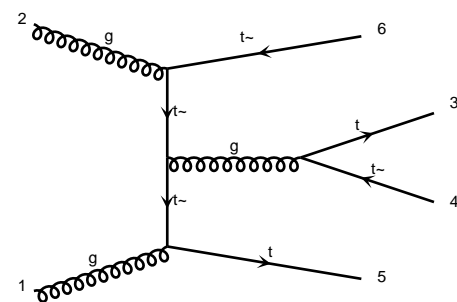
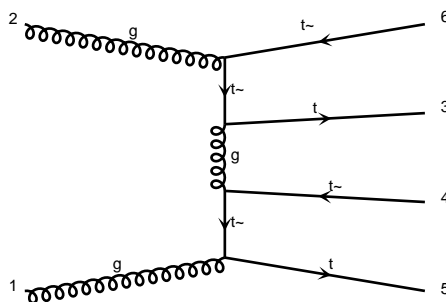


diagram 37

NP=0, NPcG=0, NPcGtl=0, NPcH=0, NPcHB=0, NPcHm=0, NPcHDD=0, NPcHG=0, NPcHGtl=0, NPcHG=0, NPcPB=0, NPcPBtl=0, NPcPCH=0, NPcPCHD=0, NPcPCHDtl=0, NPcPCHD=0, NPcPCHDtl=0

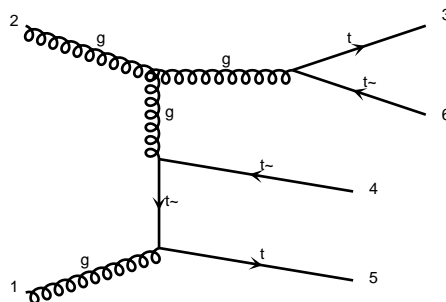
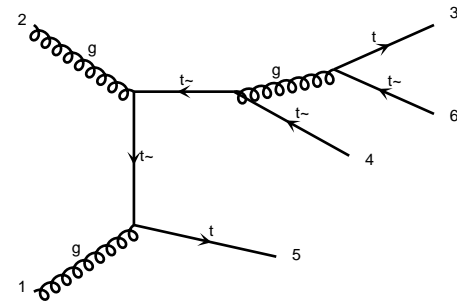
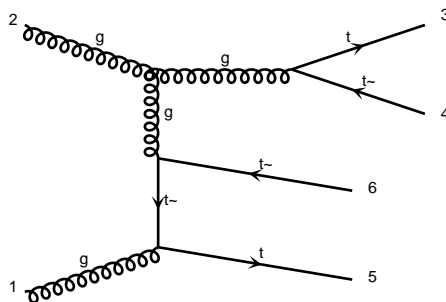


diagram 40

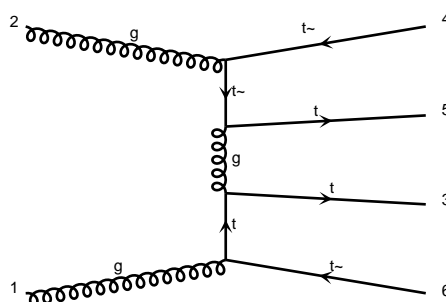
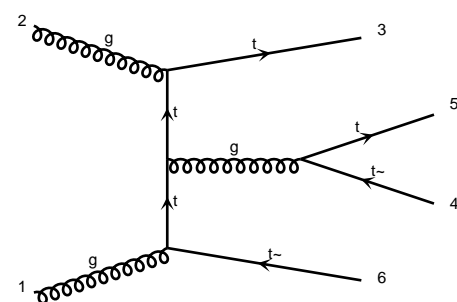
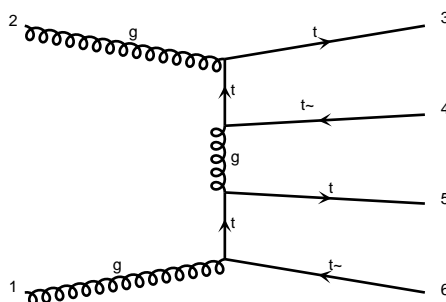
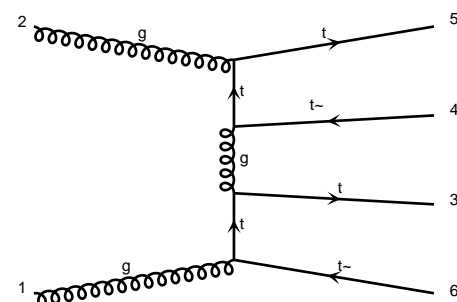
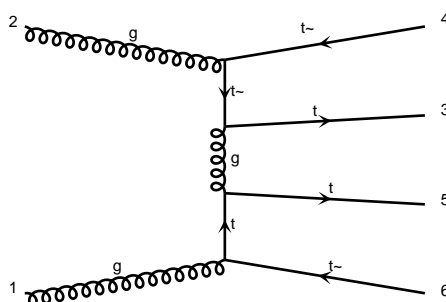
[illegible]

diagram 43

NP=0, NPcG=0, NPcGtl=0, NPcH=0, NPcHB=0, NPcHbm=0, NPcHDD=0, NPcNEC=0, NPcPGtl=0, NPcHG=0, NPcPB=0, NPcPBm=0, NPcPCHD=0, NPcPE=0, NPcPDL=0, NPcPDLm=0



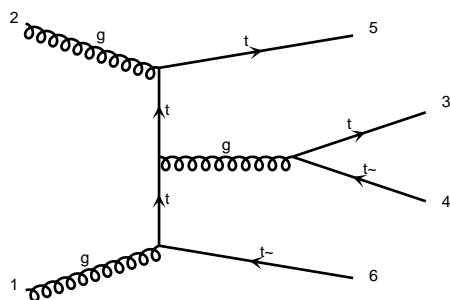


diagram 46

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=0, NPcHDD=0, NPcHG=0, NPcHGiil=0, NPcHG=0, NPcHB=0, NPcHm=0, NPcHDA=0, NPcHGD=0, NPcHGB=0, NPcHGG=0

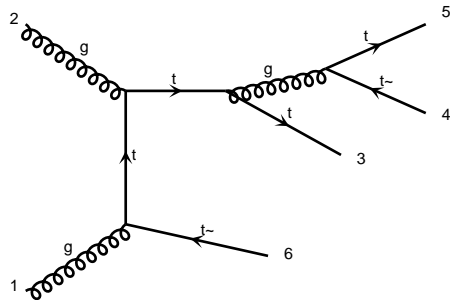
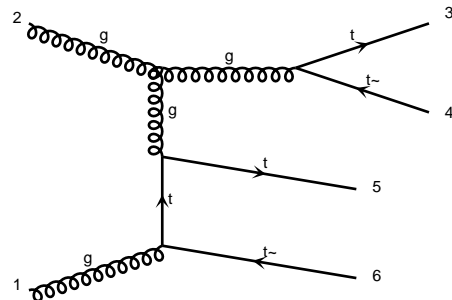
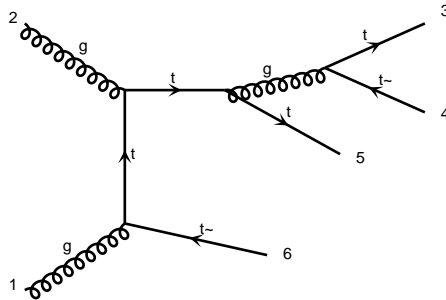


diagram 49

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=0, NPcHDD=0, NPcHG=0, NPcHGiil=0, NPcHG=0, NPcHB=0, NPcHm=0, NPcHDA=0, NPcHG=0, NPcHGB=0, NPcHGD=0

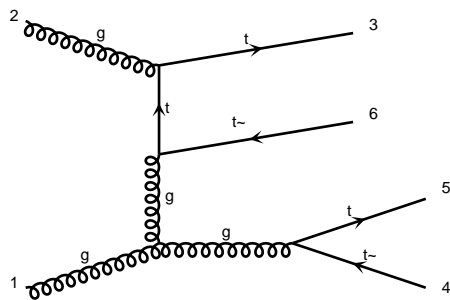
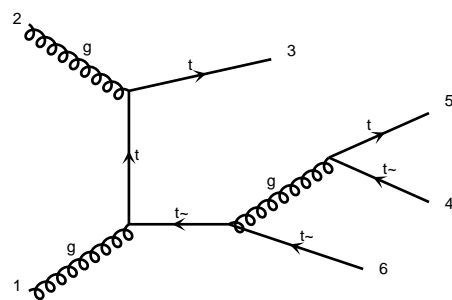
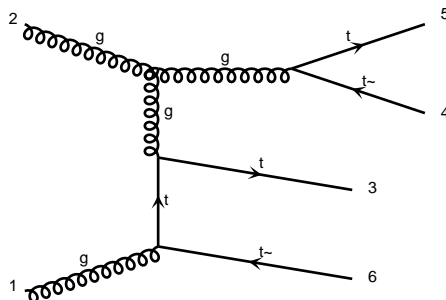


diagram 52

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=0, NPcHDD=0, NPcNCG=0, NPcPGil=0, NPcHG=0, NPcPB=0, NPcPH=0, NPcPDAD=0, NPcPDC=0, NPcPGL=0, NP

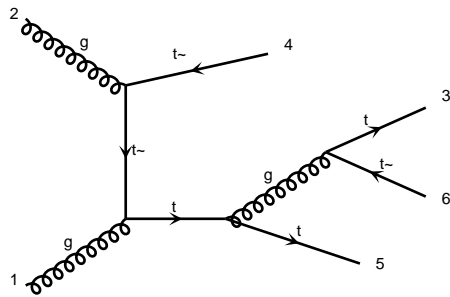
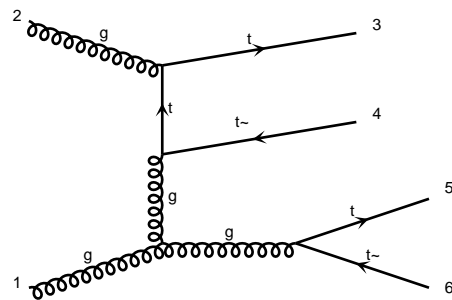
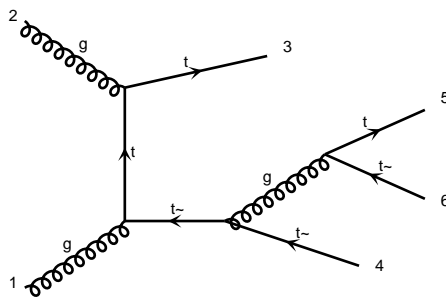


diagram 55

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=56, NPcHDD=0, NPcN=0, NPcO=0, NPcP=0, NPcPcGil=0, NPcPG=0, NPcPB=0, NPcPH=0, NPcPm=0, NPcPDAD=0, NPcPE=0, NPcPGB=0, NPcPGL=0, NP

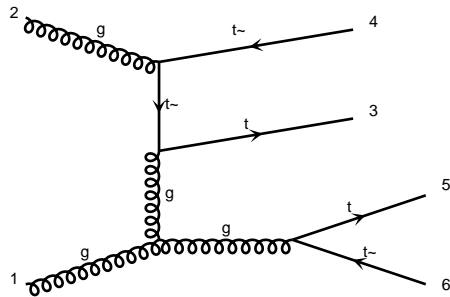
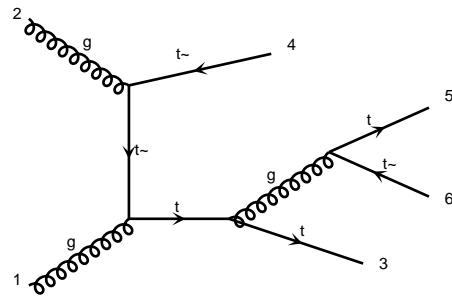
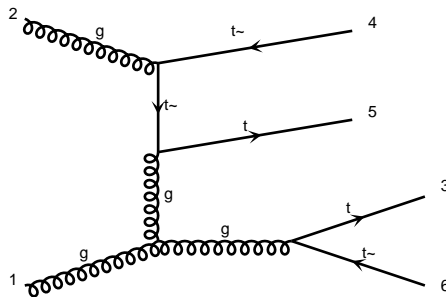
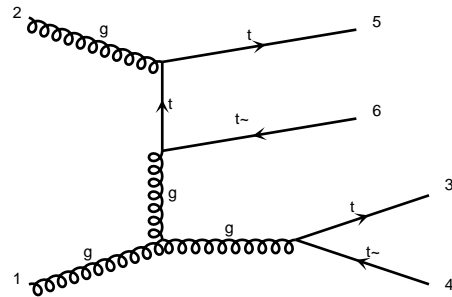
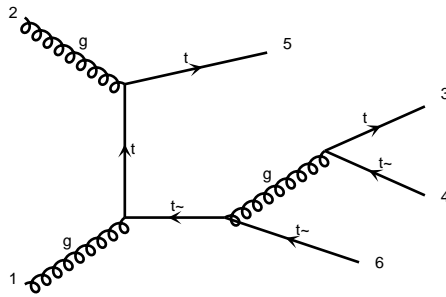


diagram 58

$\text{NP}=0$, $\text{NPeG}=0$, $\text{NPcGil}=0$, $\text{NPCH}=0$, $\text{NPChB}=0$, $\text{NPchHm}=0$, $\text{NPcHDD}=0$, $\text{NPNCeG}=0$, $\text{NPFCgil}=0$, $\text{NPFHQ}=0$, $\text{NPFPB}=0$, $\text{NPdHBm}=0$, $\text{NPFDADP}=0$, $\text{NFCEG/DUNPGIL}=0$



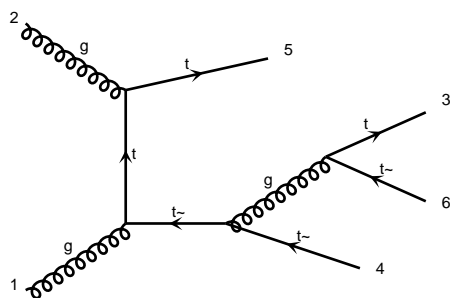
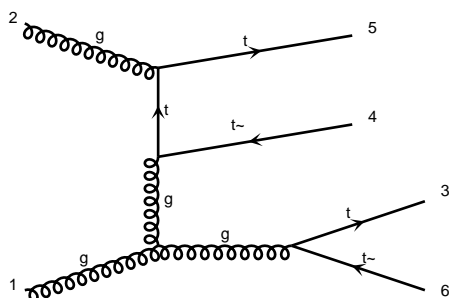
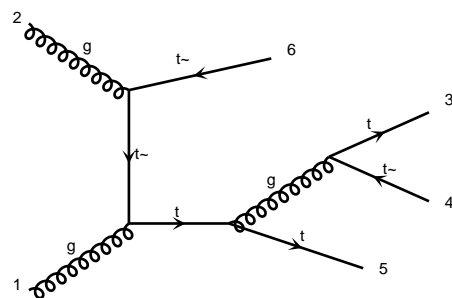


diagram 61



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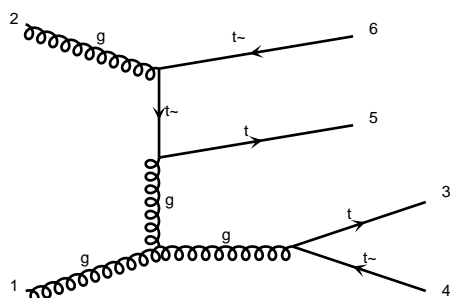
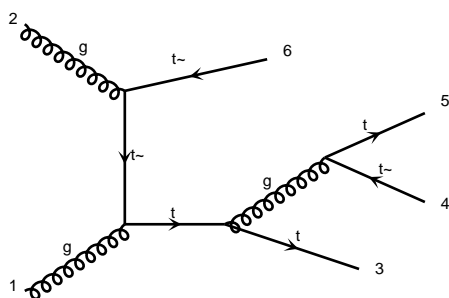
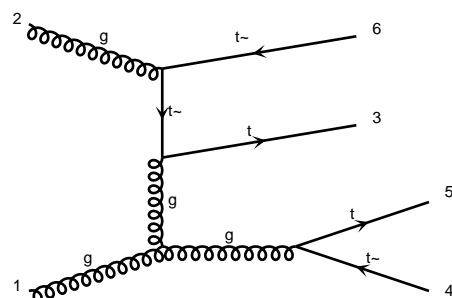


diagram 64



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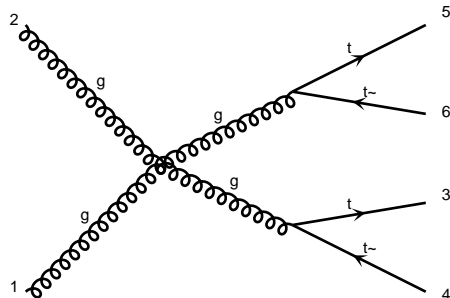
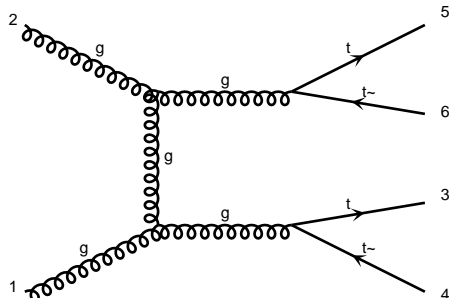
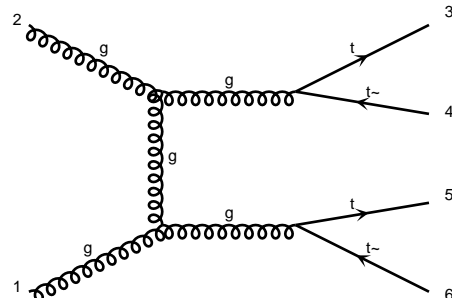


diagram 67



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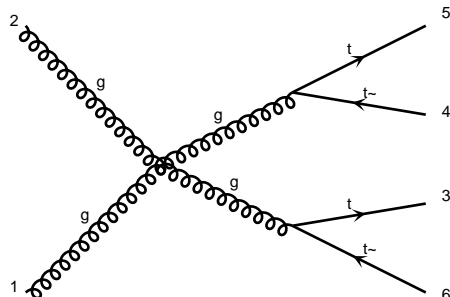
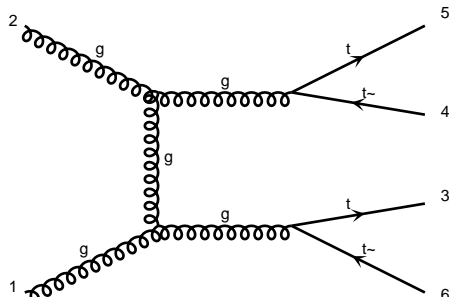
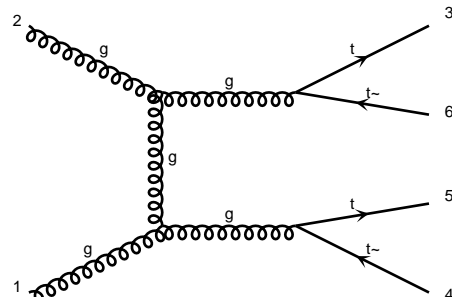


diagram 70



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