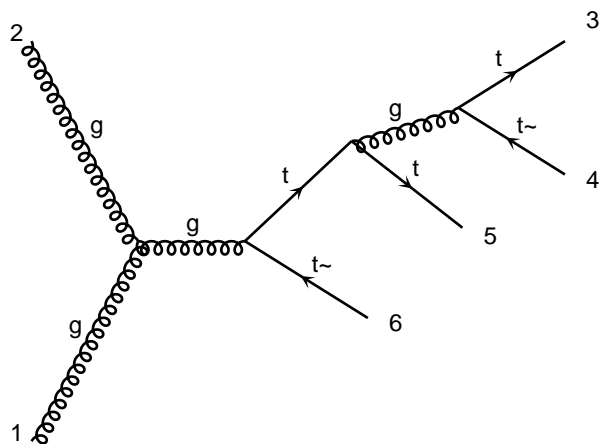
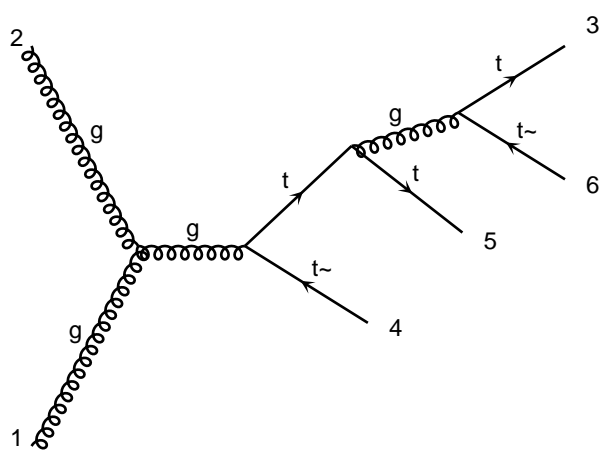


$\text{NP}=0$ ,  $\text{NPcG}=0$ ,  $\text{NPcGtil}=0$ ,  $\text{NPcH}=0$ ,  $\text{NPcHB}=0$ ,  $\text{NPcHBr}=20$ ,  $\text{NPcHDIP}=0$ ,  $\text{NPcHG}=0$ ,  $\text{NPcHIG}=0$ ,  $\text{NP}$

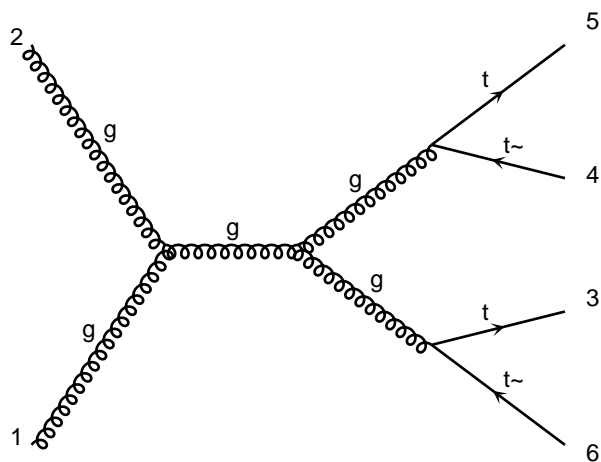


The diagram shows a process with two incoming gluons (labeled 1 and 2) and two outgoing top quarks (labeled 4 and 5). The interaction is mediated by a gluon exchange (labeled 3). The lines are labeled with 'g' for gluons and 't' for top quarks. The diagram is a tree-level Feynman diagram for the process  $gg \rightarrow t\bar{t}$ .

NP=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHtil=0, NPcHDP=0, NPcHG=0, NPcHGtil=0, NP



$\text{NP}=0$ ,  $\text{NPcG}=0$ ,  $\text{NPcGil}=0$ ,  $\text{NPcH}=0$ ,  $\text{NPcHB}=0$ ,  $\text{NPcHBril60}$ ,  $\text{NPcHDIP}=0$ ,  $\text{NPcHG}=0$ ,  $\text{NPcHIG}=0$ ,  $\text{NP}$







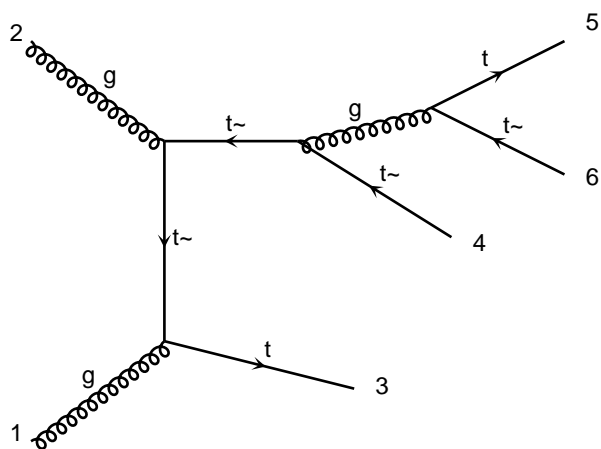
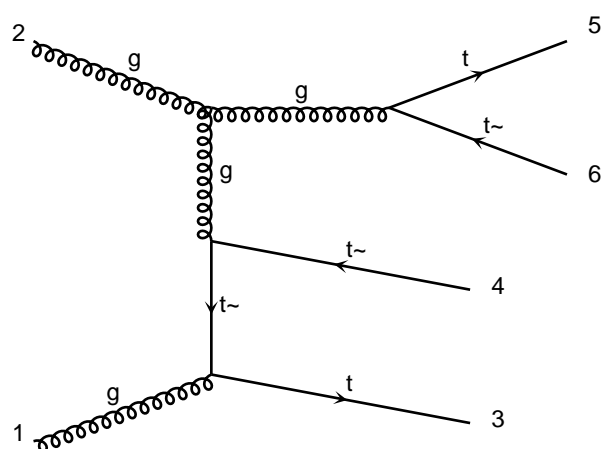


diagram 19

NP=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBr=20, NPcHDP=0, NPcHG=0, NPcHG=0, NPcHG=0, NP



Nagr-Btil20

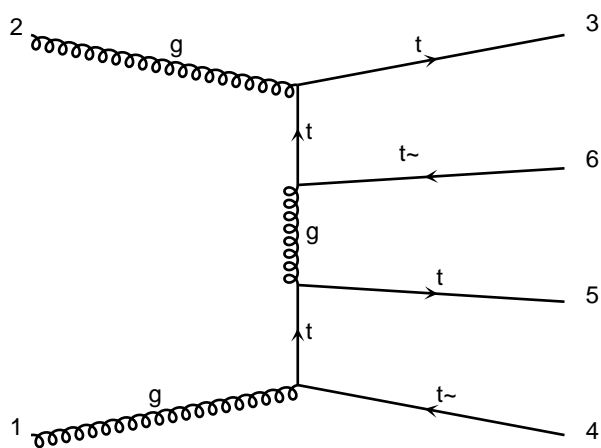
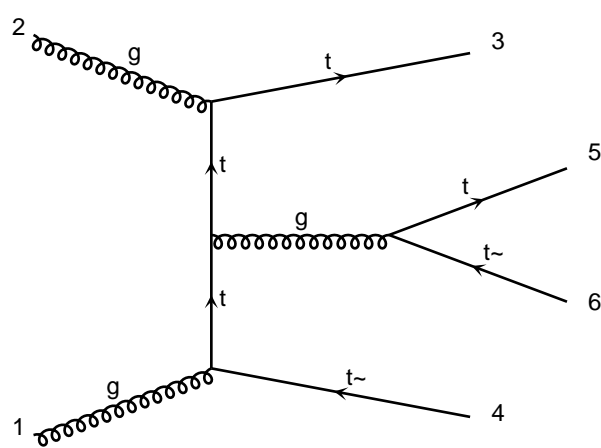
$$\text{DNP}=\text{O}, \text{NIP}+\text{G}=\text{O}, \text{NIP}+\text{G} \neq \text{O}, \text{NIP}$$


diagram 21

NP=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBr=0, NPcHBr2=0, NPcHNP=0, NPcHG=0, NPcHIG=0, NP



Nagrbt120

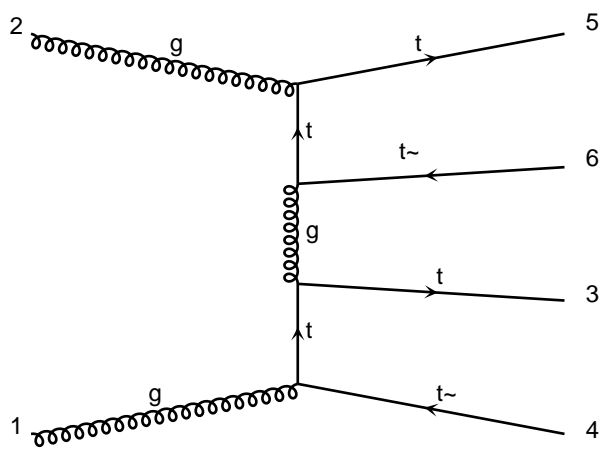
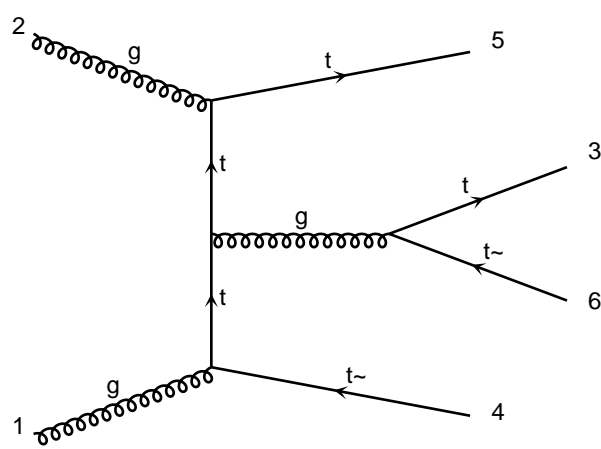
$$\text{DNP}=\emptyset, \text{NPP} \cap G=\emptyset, \text{NPP} \cap G \neq \emptyset = \text{NP}$$


diagram 23

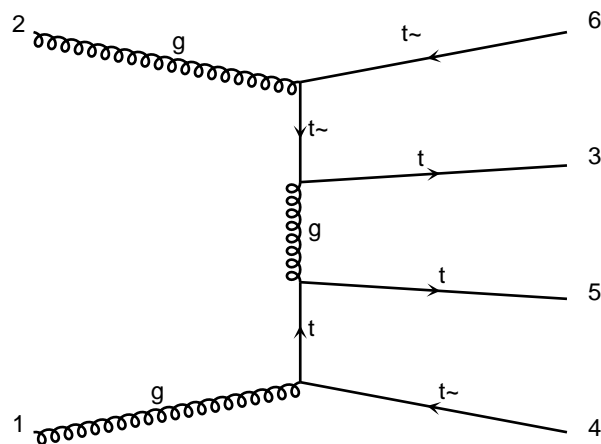
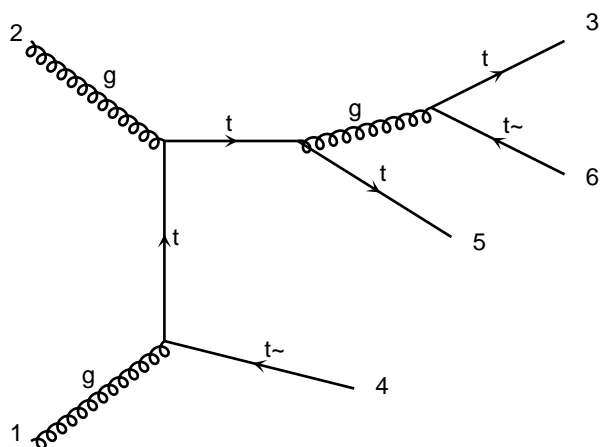
NP=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBr=0, NPcHBr2=0, NPcHDP=0, NPcHG=0, NPcHG=0, NPcHG=0, NP



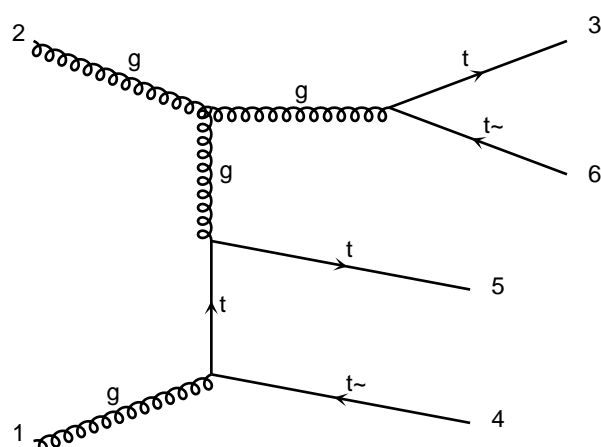
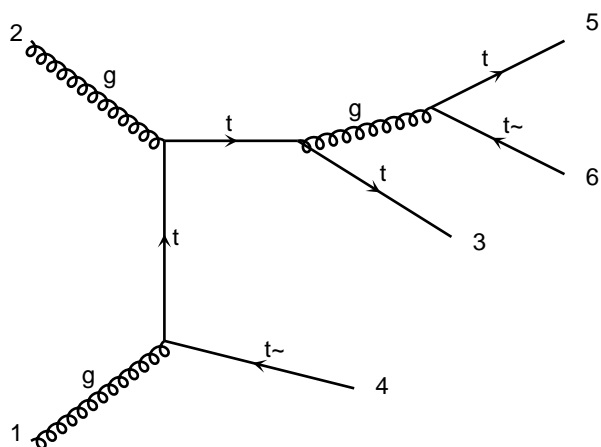
Nagr-Btil20.

$$\text{DNP}=\emptyset, \text{NFPocG}=\emptyset, \text{NFPocG} \neq \emptyset = \text{NFP}$$

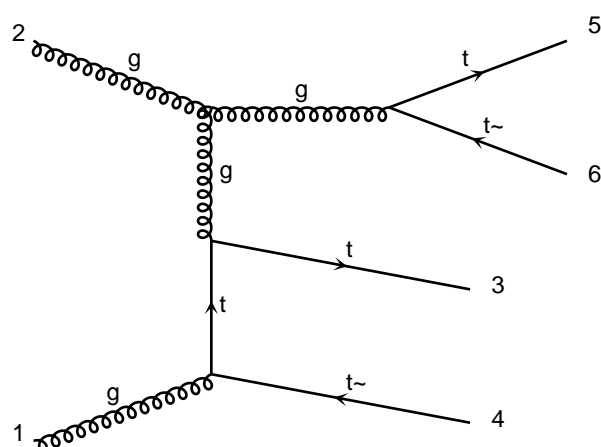
NP=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0,


$$HNDP=CO, NNPCHG=CO, NNPCHG=O, NP$$


NP=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0,


$$HNDP=CO, NNPd(G=CO), NNPd(GtGtO)=NP$$


NP=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0,


$$\text{HNDP}=\text{CO}, \text{NTP}=\text{CG}=\text{CO}, \text{NTP}=\text{CHG}=\text{O}=\text{NTP}$$

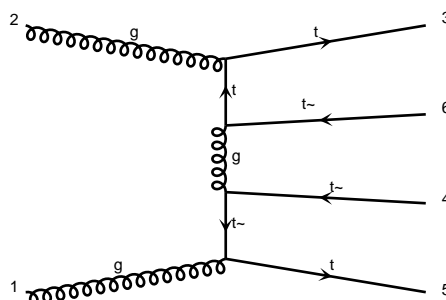
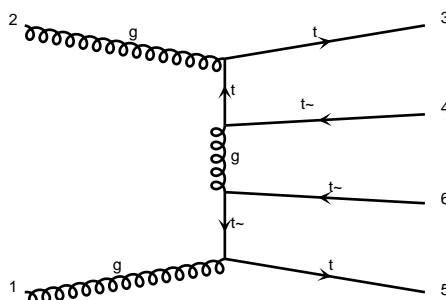


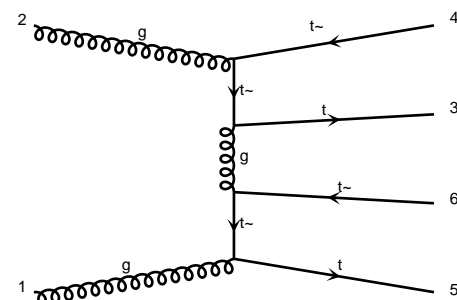
diagram 31

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcBri=0, NPcHDD=0, NPcBe=0, NPcKil=0, NPcHG=0, NPcPB=0, NPcBri=0, NPcFD=0, NPcD=0, NPcGSF=0



NPaghtBtl=32

NPdO, NPdO = NPdPGH = 0, NPdHG = 0, NPdPB = 0.3, NPdPBH = 0.2, NPdFCHDAB = 0, NPdOAB = 0, NPdPGH = 0, NPd



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102-100, NTC=0, DTP=0, CRR=0, NRP

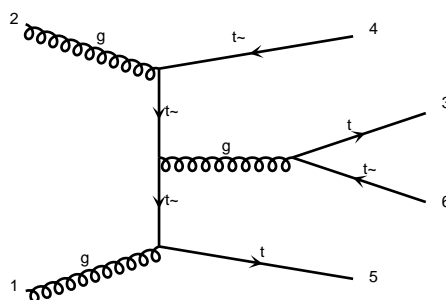
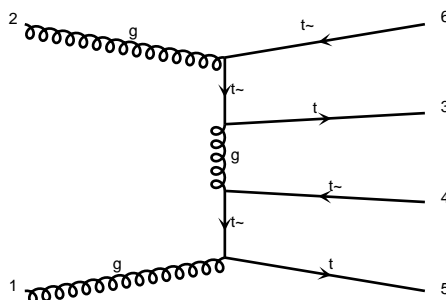
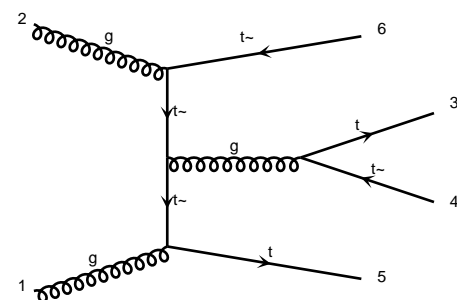


diagram 34

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=35, NPcHDD=0, NPcHGG=0, NPcHGil=0, NPcHG=0, NPcHB=0, NPcHm=0, NPcHDA=0, NPcHGD=0, NPcHGB=0, NPcHGG=0



NoPageBtil=35

[illegible]

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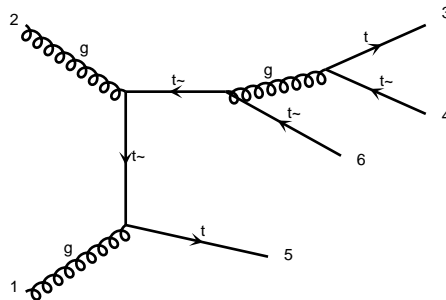
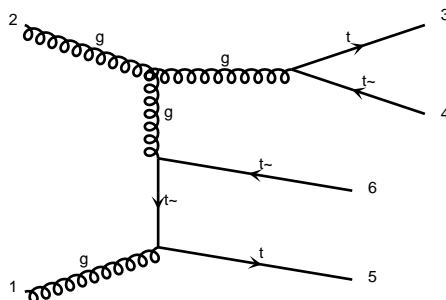
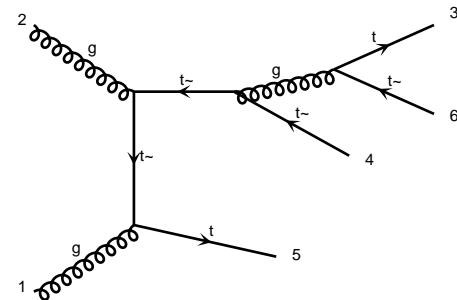
[illegible]

diagram 37

[illegible]

NPagBtl=38

[illegible]

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10.1002/nlcr.1004

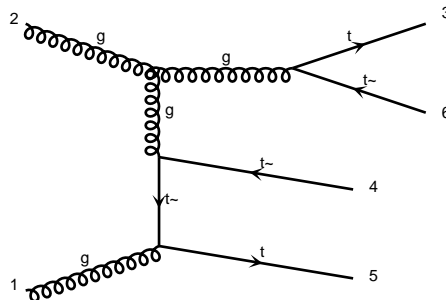
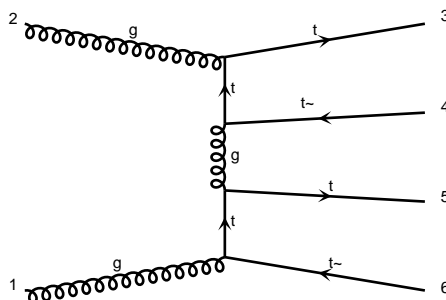
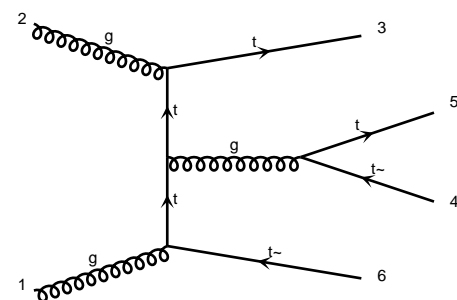


diagram 40

[illegible]

NPactBtl=01

[illegible]

3401

**NOT FOR RELEASE UNDER E.O. 1.35**

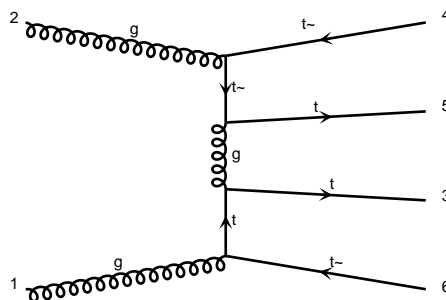
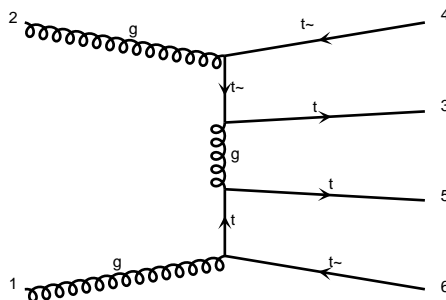
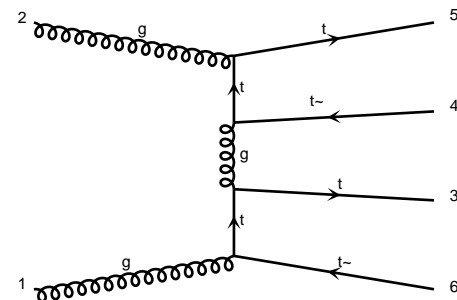


diagram 43

[illegible]

NPaghtBtl=04

[illegible]

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10/10/2016 10:41:00 AM

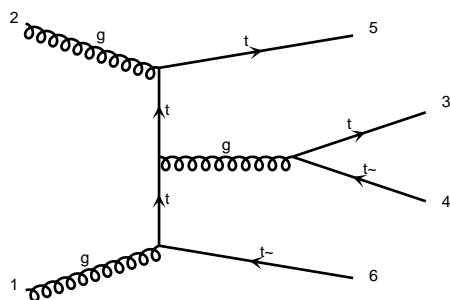


diagram 46

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

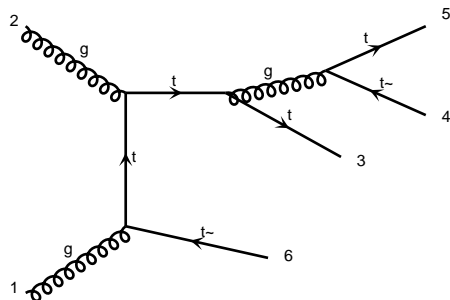
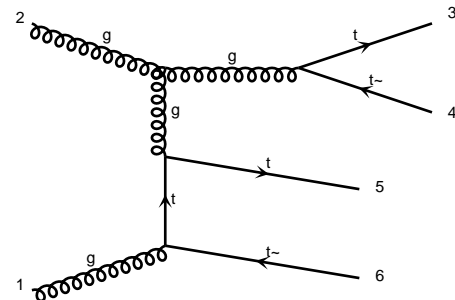
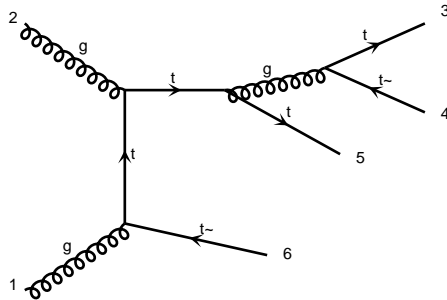


diagram 49

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=50, NPcHDD=0, NPcN=0, NPcO=0, NPcOGil=0, NPcHG=0, NPcHB=0, NPcHm=0, NPcHDA=0, NPcHGD=0, NPcHGB=0, NPcHGG=0

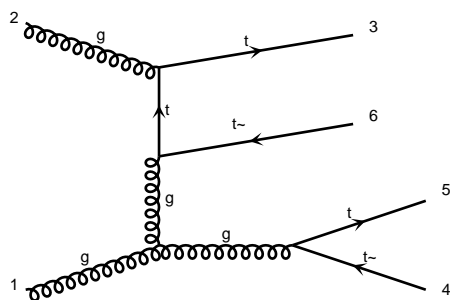
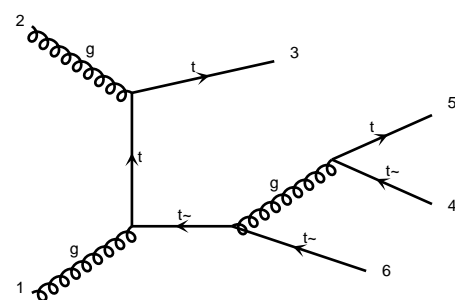
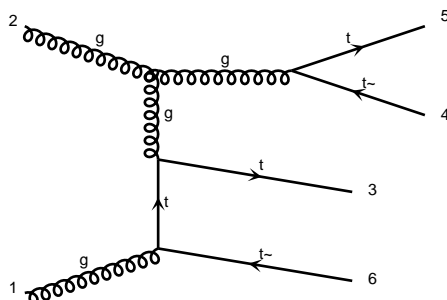


diagram 52

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=0, NPcHDD=0, NPcNCG=0, NPcPGil=0, NPcHG=0, NPcPB=0, NPcPH=0, NPcPD=0, NPcPDA=0, NPcPCD=0, NPcPGL=0, NP

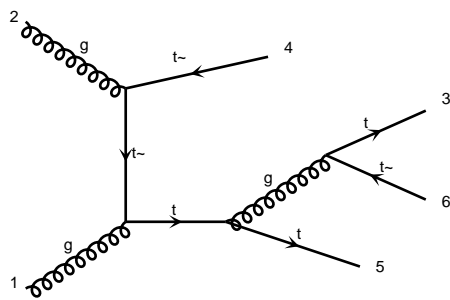
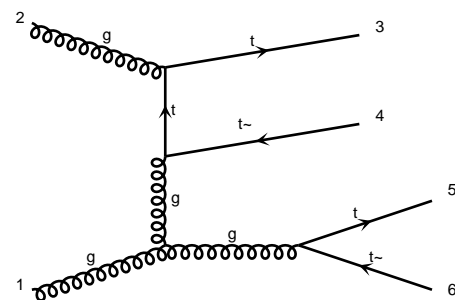
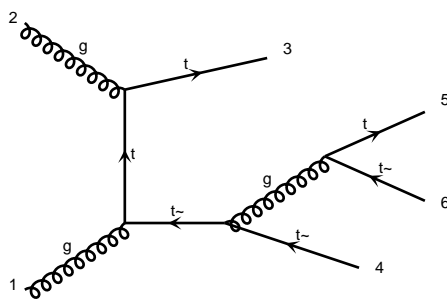


diagram 55

NP=0, NPcG=0, NPcGtl=0, NPcH=0, NPcHB=0, NPcHm=56, NPcHDD=0, NPcNEC=0, NPcPGtl=0, NPcHG=0, NPcPB=0, NPcPbm=0, NPcPDAD=0, NPcPEG=0, NPcPGE=0, NP

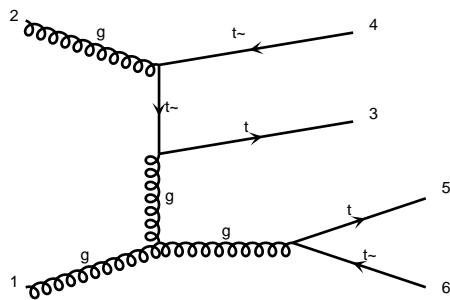
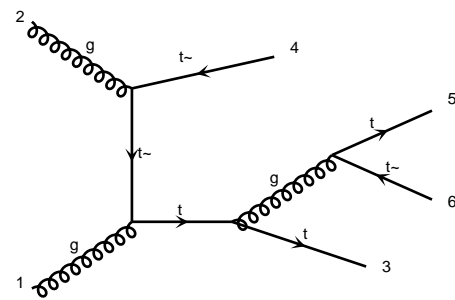
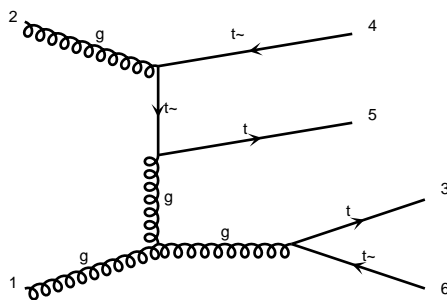
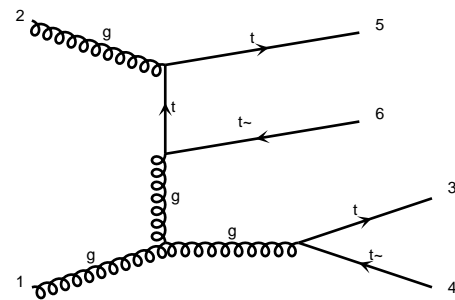
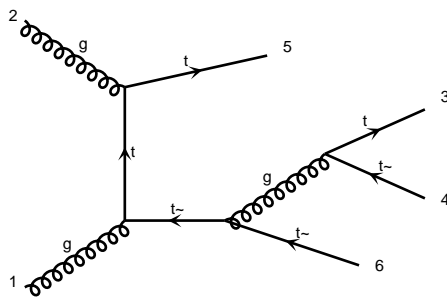


diagram 58

NP=0, NPcG=0, NPcGil=0, NPcH=0, NPcHB=0, NPcHm=0, NPcHDD=0, NPcN=0, NPcO=0, NPcP=0, NPcPcGil=0, NPcHQ=0, NPcPB=0, NPcPH=0, NPcPD=0, NPcPDAL=0, NPcPG=0, NPcPGL=0, NPcPGLD=0



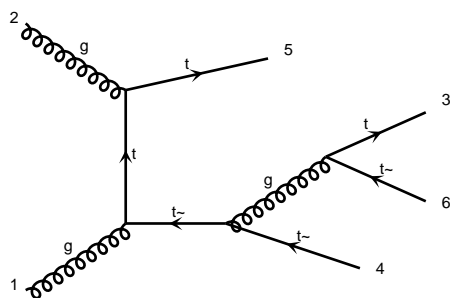
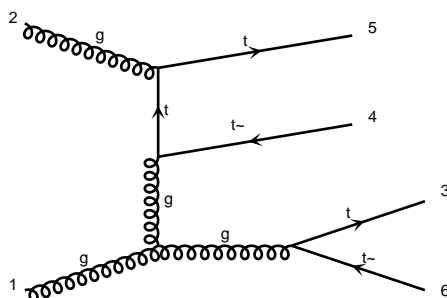


diagram 61



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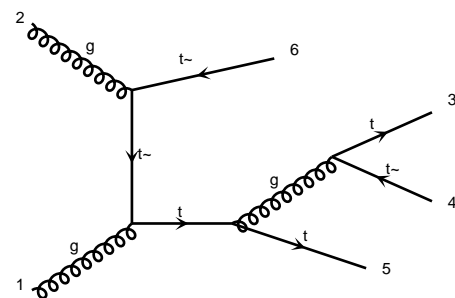
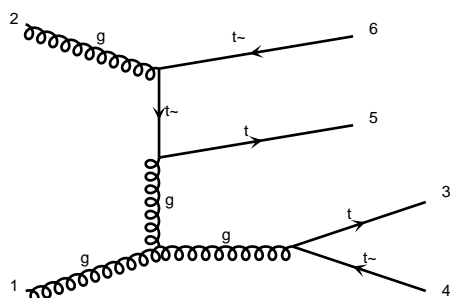
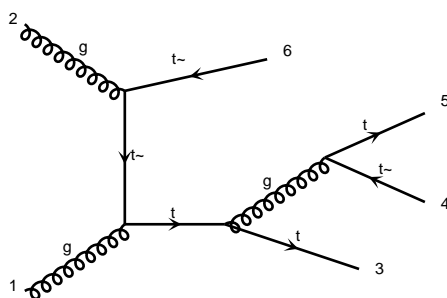
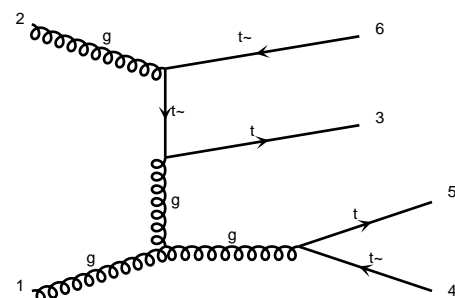

$$A \cup B = \{a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z\}$$


diagram 64



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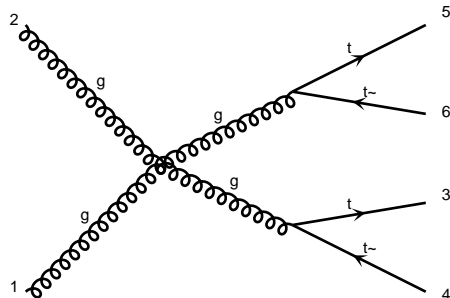
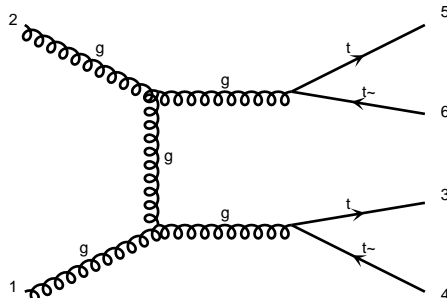
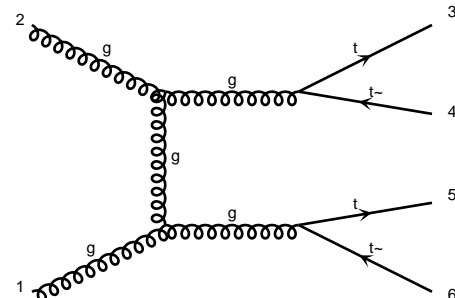


diagram 67



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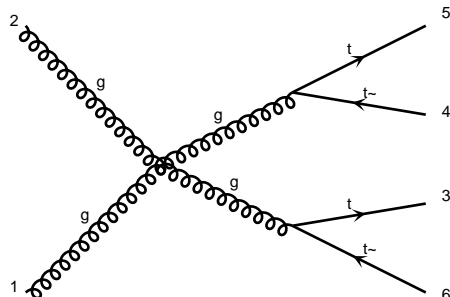
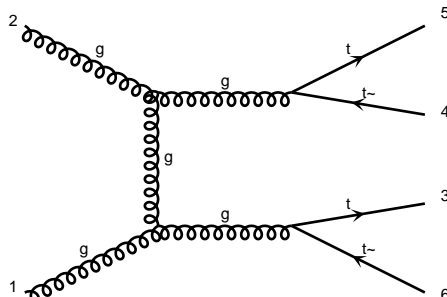
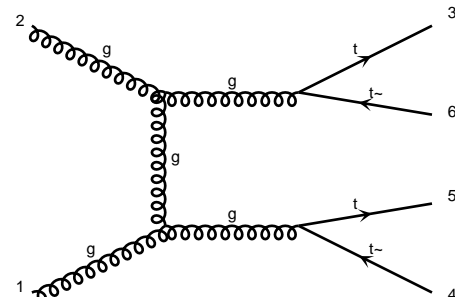


diagram 70



Unit Btl=701, N



ADP-ATP Ratio=