diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl
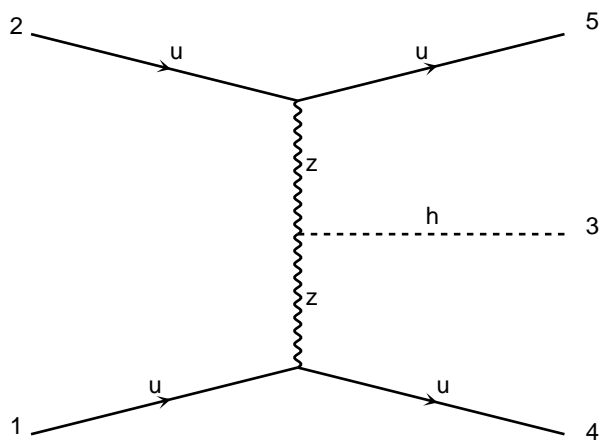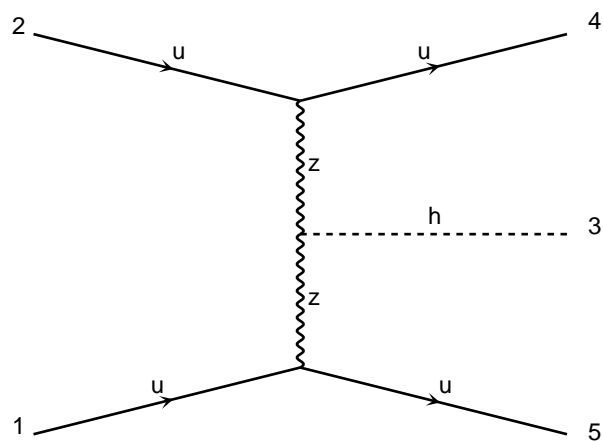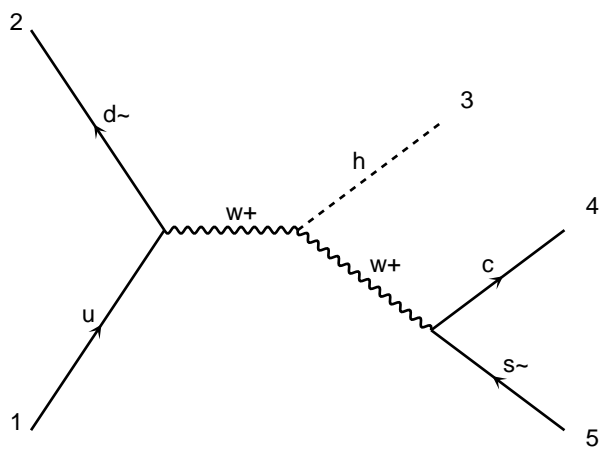
diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBtil=0, 2PcHBtil=0, NPcHDDl=0, NPcHG=0, NPcG

2

d~

3

h

w+

4

c

w+

u

s~

1

5

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl

Diagrams made by MadGraph5_aMC@NLO

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPc

Diagrams made by MadGraph5_aMC@NLO

2 —— c~ —— c~ —— 5

z

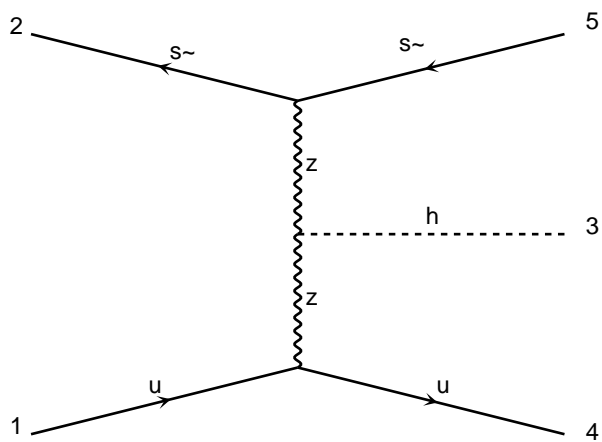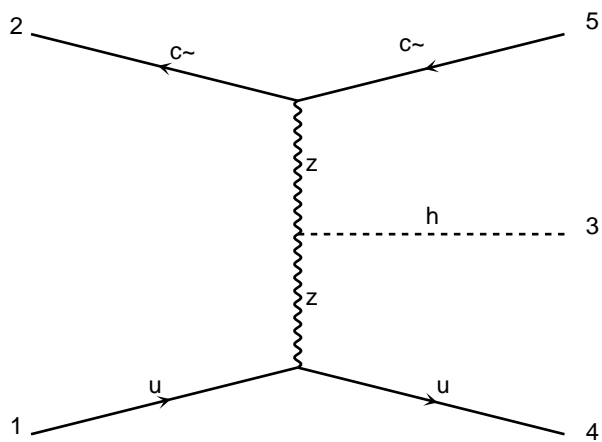h ------- 3
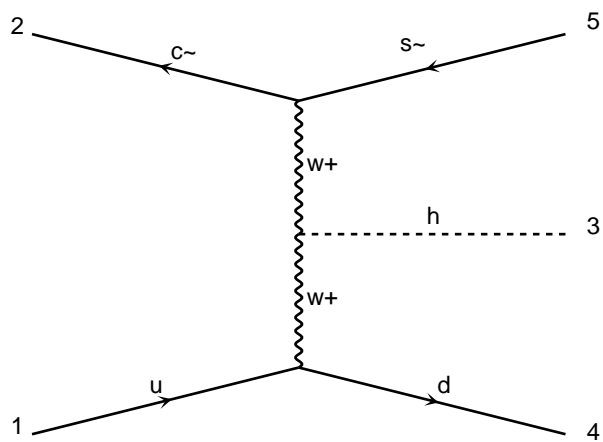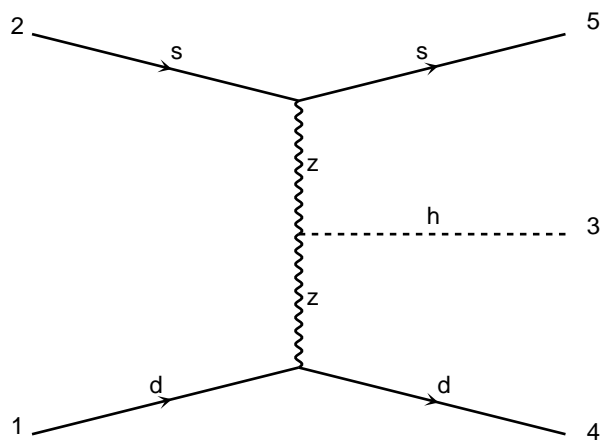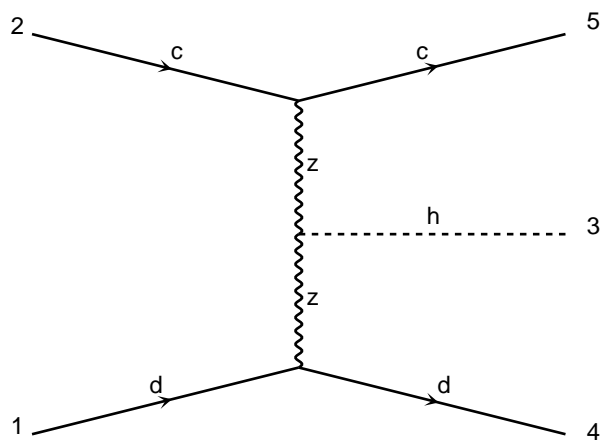
z

u —— u

1 —— 4

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl

diagram 1　　　　NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl

2 s

s 5

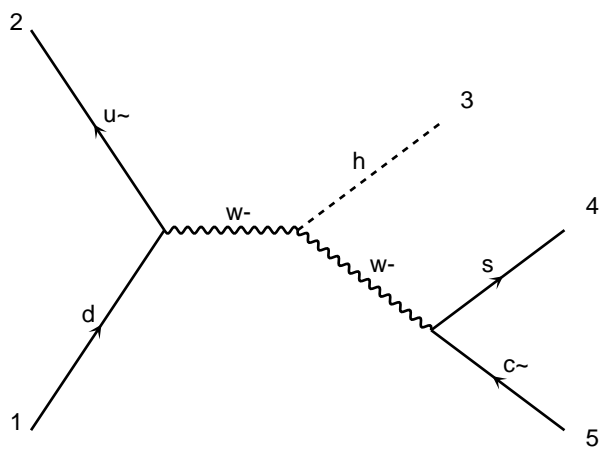z

h 3

z

d

1 d 4

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPc
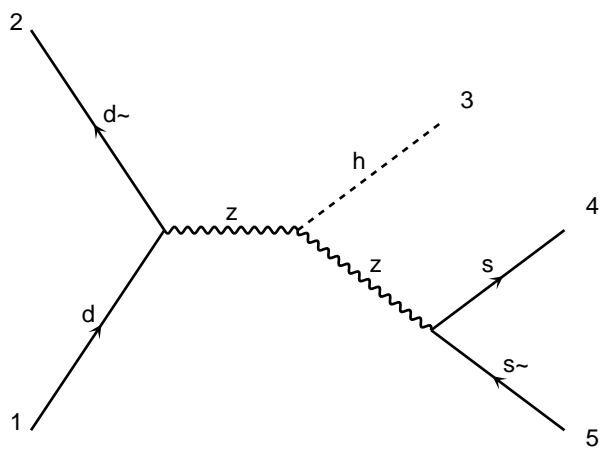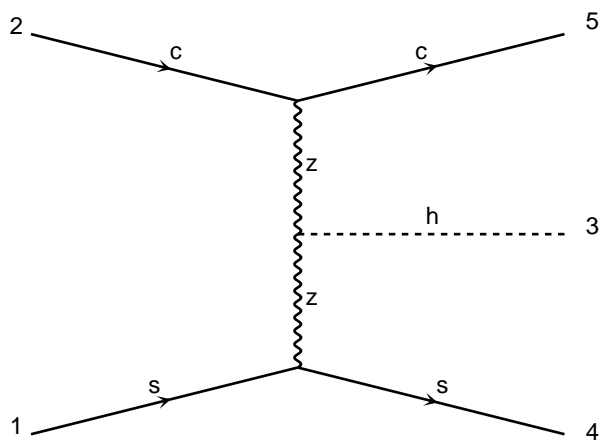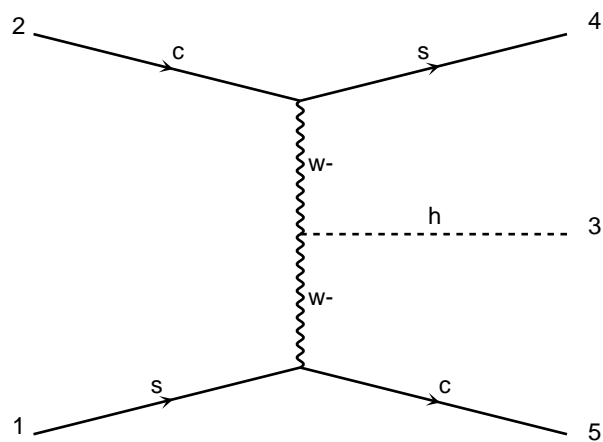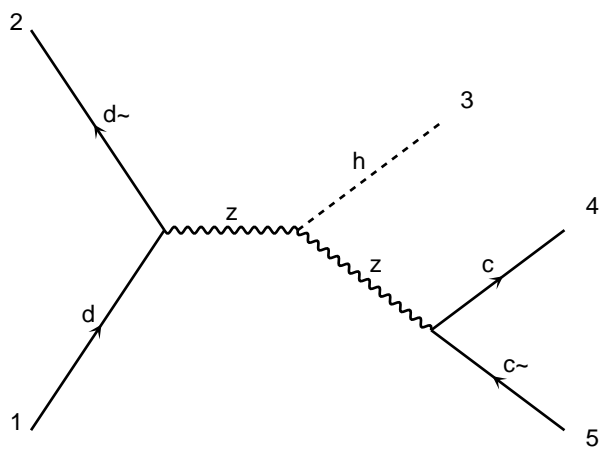
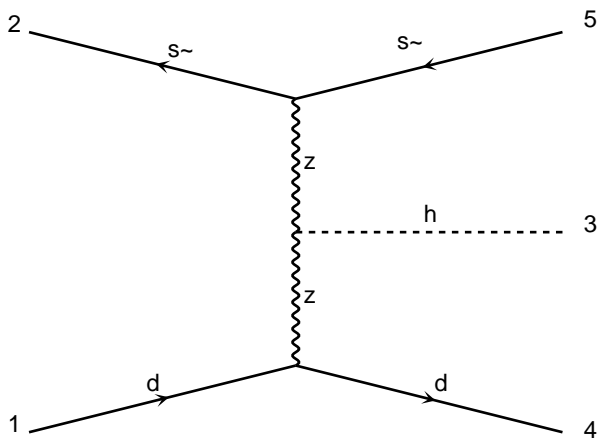Diagrams made by MadGraph5_aMC@NLO

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl

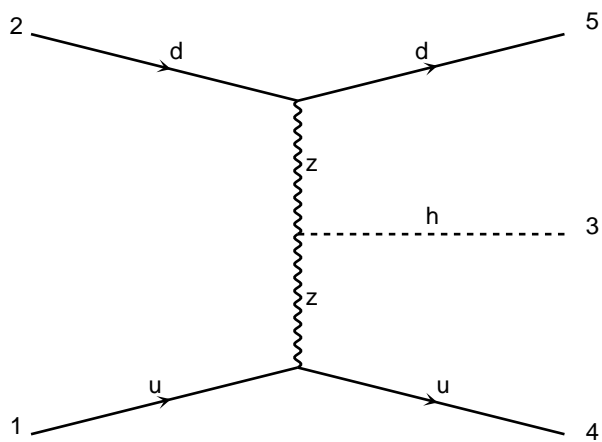diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl
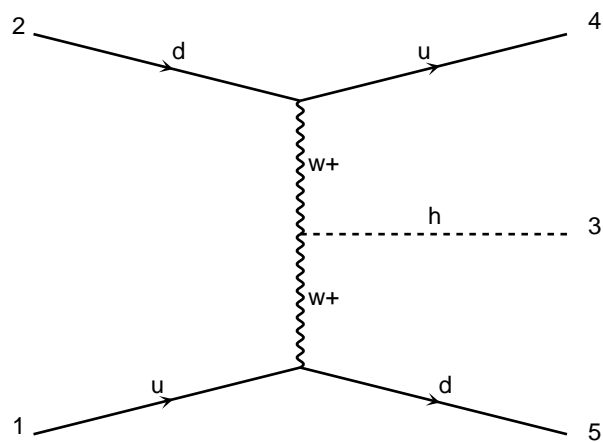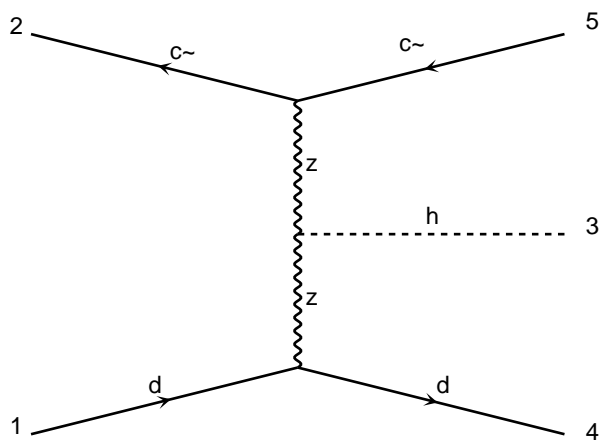
diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPdiagram 20, NPcHBtil=0, NPcHDtil=0, NPcHG=0, NPcG

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl

2 — s~ ⟵ s~ — 5

z

h --------------- 3

z

1 — d ⟶ d — 4

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcH

2 —— d ——— d —— 5

z

h ———— 3

z

1 —— u ——— u —— 4

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, 2PcHBtil=0, NPcHDDI=0, NPcHG=0, NPcG

2 —— d ——— u —— 4

w+

h ———— 3

w+

1 —— u ——— d —— 5
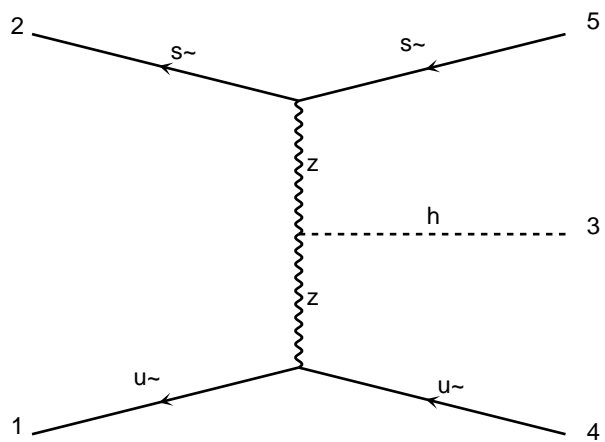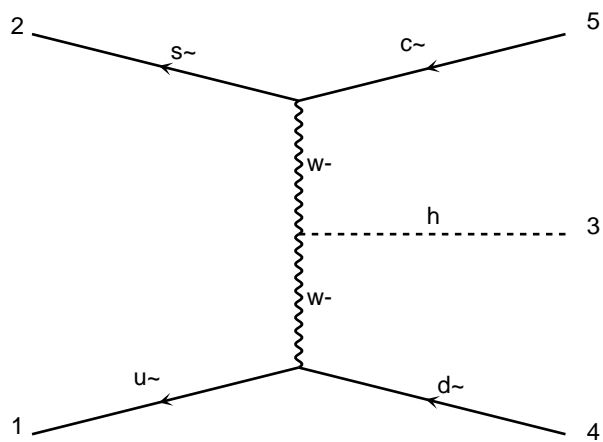
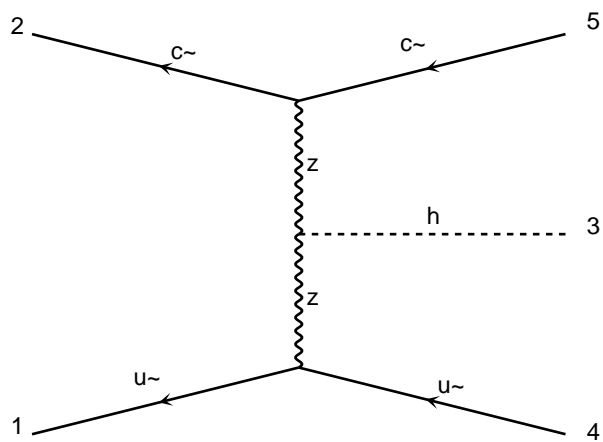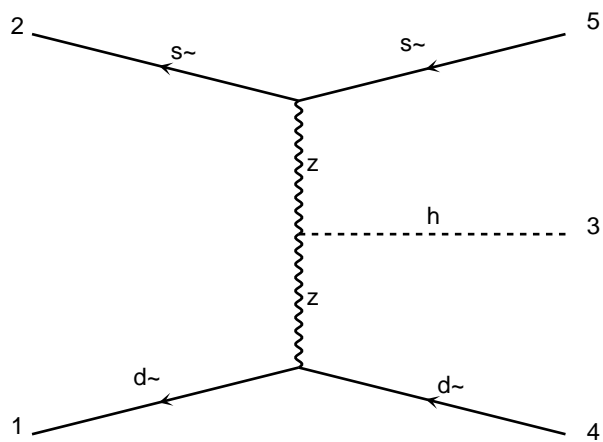Diagrams made by MadGraph5_aMC@NLO

diagram 1　　　　　NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl
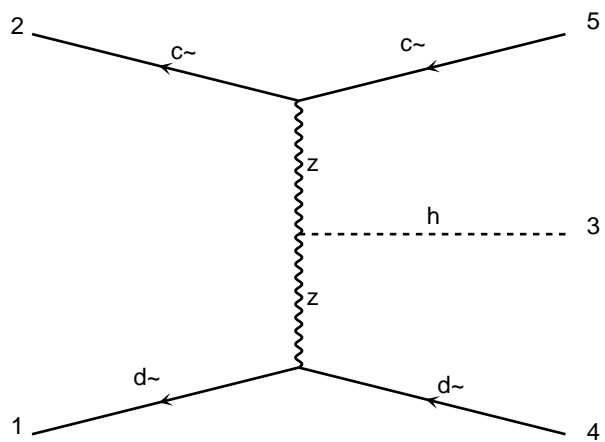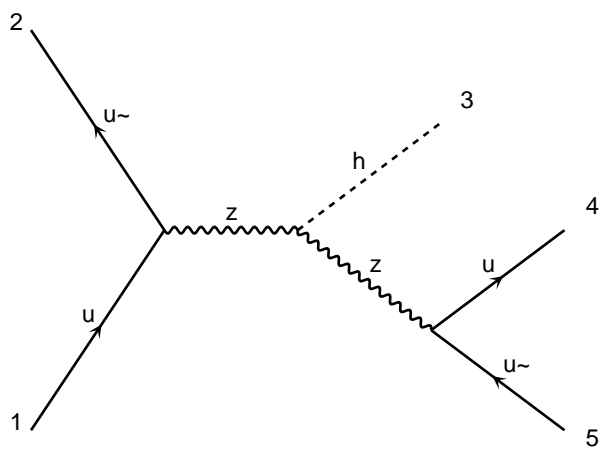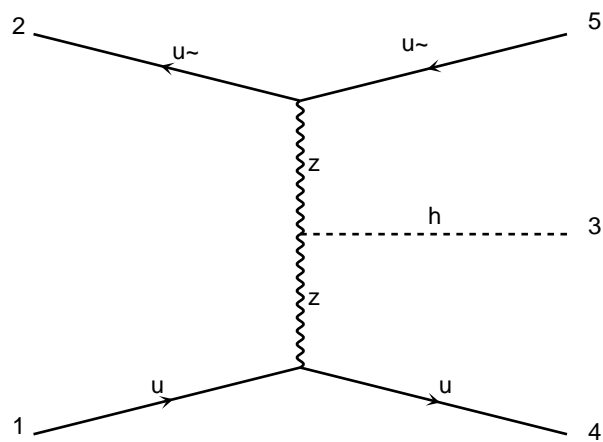
diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl
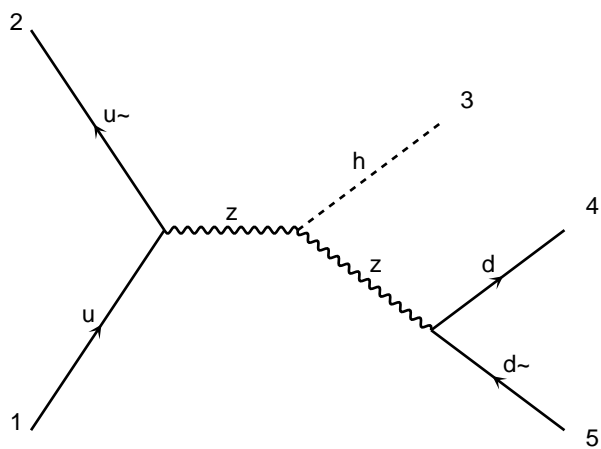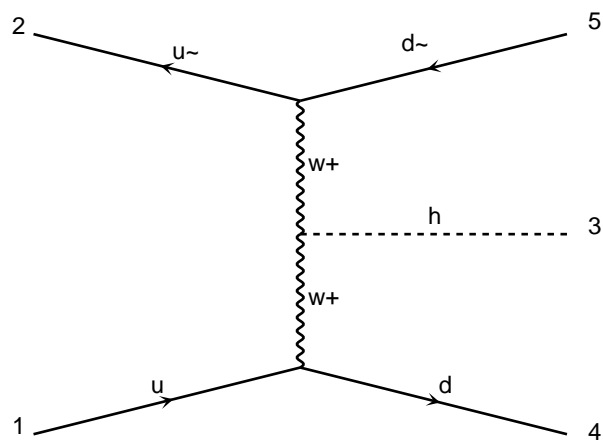
diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPc

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPc

2

c~

c~

5

z

h

3

z

d~

d~

1

4

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPc

Diagrams made by MadGraph5_aMC@NLO

diagram 1 NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPdiagBac0, 2NPcHBtil=0, NP=0, NPall=0, NPcG=0, NPcH=0, NPcG=0, NPc
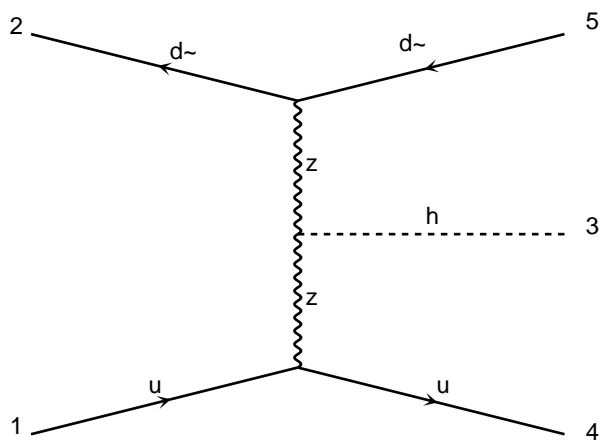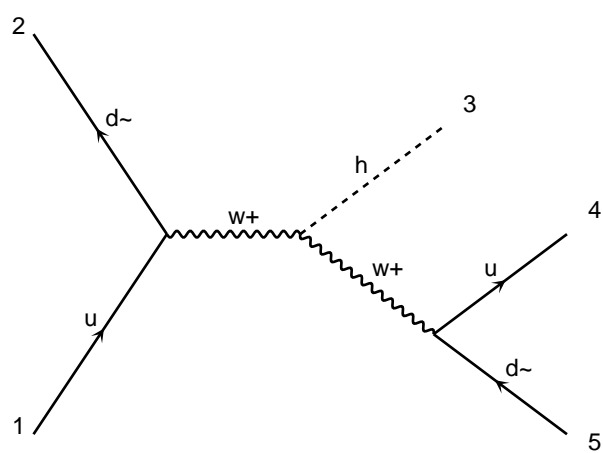
diagram 1

NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcG...

diagram 1

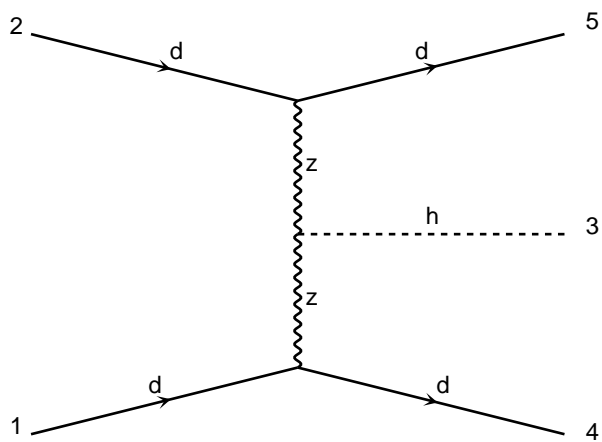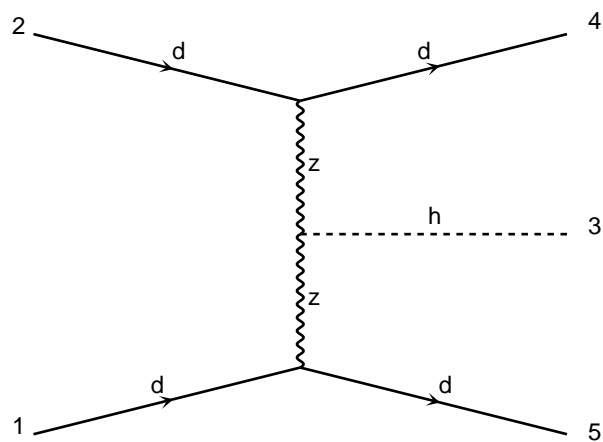NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBox=0, NPcHBtil=0,NPcHDD=0,NPcHG=0,NPc...

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBtil=0, 2NPcHBtil=0, NPcHDD=0, NPcHG=0, NPc...
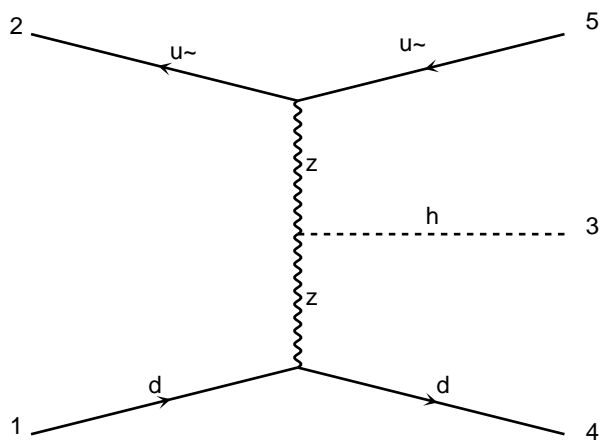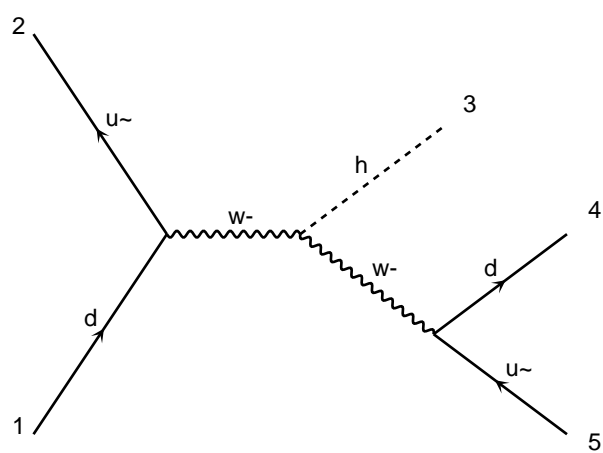
diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBo, 2NPcHBtil=0,NP=0,cNDBll=0,NPctG=0,NPc

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBtil=0, NPcHBox=0, NPcHBtil=0, NPcHD=0, NPcHG=0, NPcG=0

Diagrams made by MadGraph5_aMC@NLO

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBtil=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcG

diagram 1

NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHD=0, NPcHDD=0, NPcHG=0, NPcG

diagram 2

Diagrams made by MadGraph5_aMC@NLO

2   d~   d~   5

z

h   3

z

u~

1   u~   4

2   d~   u~   4

w-

h   3

w-

u~

1   d~   5

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBox=0, NPcHBtil=0, NPcHD=0, NPcHG=0, NPc...

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHD=0, NPcHG=0, NPcG

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBox=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcG
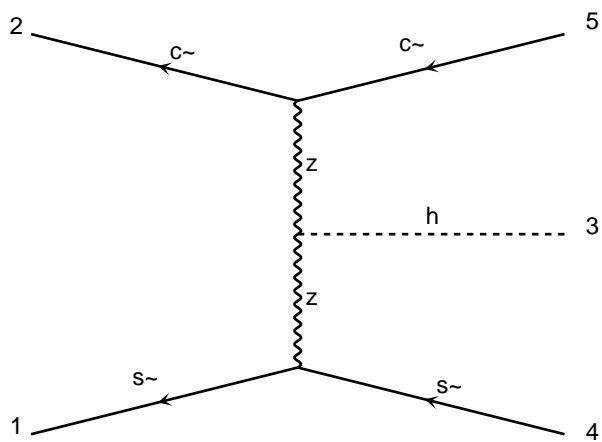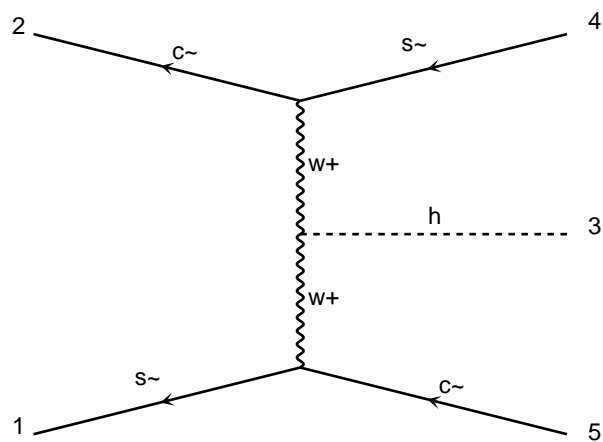
diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl
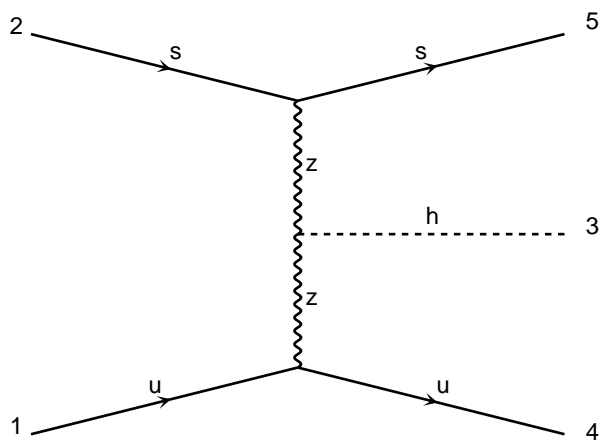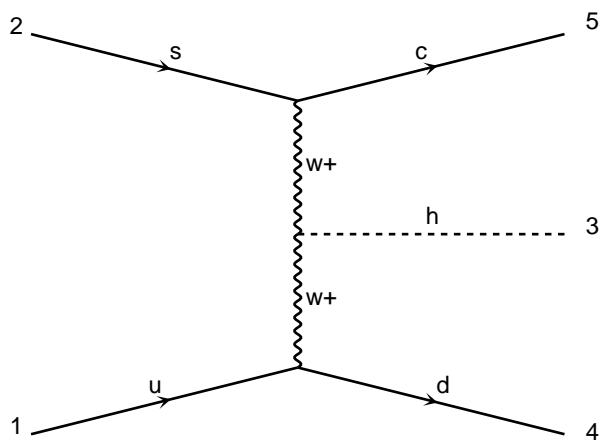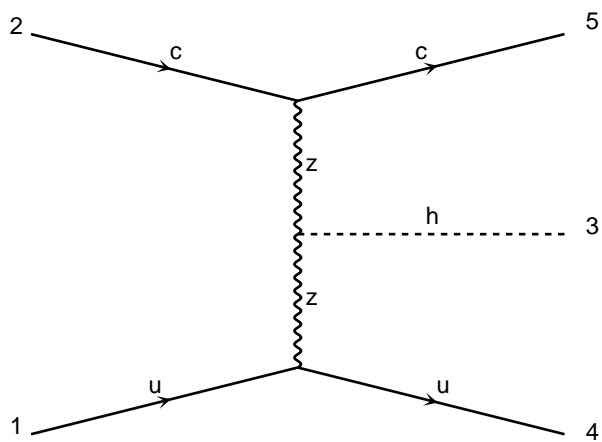
diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPc
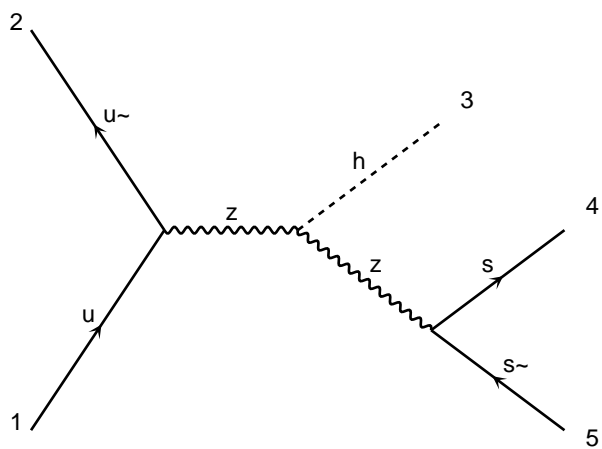
diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl

diagram 1   NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHB=0, NPcHBtil=0, NPcHDD=0, NPcHG=0, NPcl