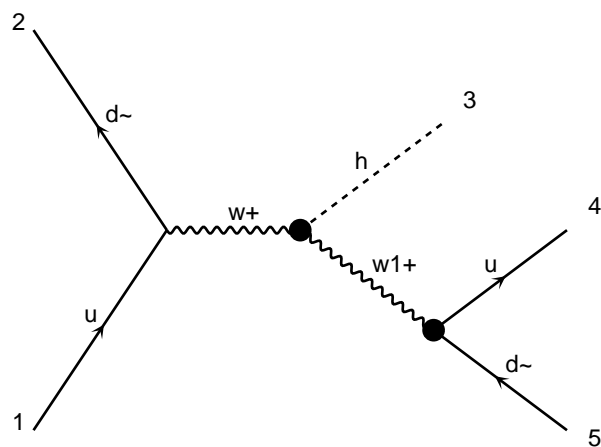
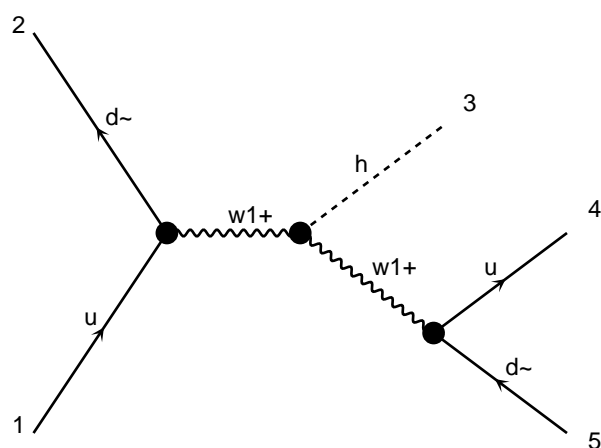


NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBan=0, NPcHBtil=0, NPcHNDil=0, NPcHG=0, NPcH



The diagram shows a central vertex where a  $W_1^+$  boson (represented by a wavy line) decays into a photon  $h$  (represented by a dashed line) and a  $W^+$  boson (represented by a wavy line). The  $W^+$  boson then decays into a quark  $u$  (represented by a solid line) and an antiquark  $\bar{d}$  (represented by a solid line). The quark  $u$  is labeled with '1' and the antiquark  $\bar{d}$  is labeled with '2'. The photon  $h$  is labeled with '3' and the  $W^+$  boson is labeled with '4'. The quark  $u$  is labeled with '5' and the antiquark  $\bar{d}$  is labeled with '6'.

NP=0, NPall=2, NPcG=0, NPcGtil=0, NPcH=0, NPcHBan=0, NPcHBtil=0, NPcI=0, NPcIal=0, NPcP=0, NPcPG=0, NPcPc



The diagram shows a central vertical wavy line representing a  $Z$  boson. At the top vertex, the  $Z$  boson decays into a quark-antiquark pair, labeled  $d\bar{d}$ . At the bottom vertex, the  $Z$  boson decays into a quark-antiquark pair, labeled  $u\bar{u}$ . A horizontal dashed line, representing a Higgs boson ( $h$ ), is attached to the central  $Z$  boson line. The external lines are labeled with numbers 1 through 5: 1 and 2 are on the left, 3 is on the right, and 4 and 5 are on the right. Arrows indicate the flow of particles: from 1 to 2, from 3 to 4, and from 5 to 4.

NP=0, NPall=0, NPcG=0, NPcGtil=0, NPcH=0, NPcHBan=0, NPcHBtil=0, NPcI=0, NPcIal=0, NPcIG=0, NPcIC

