

diagram 1 QCD=3, QED=4

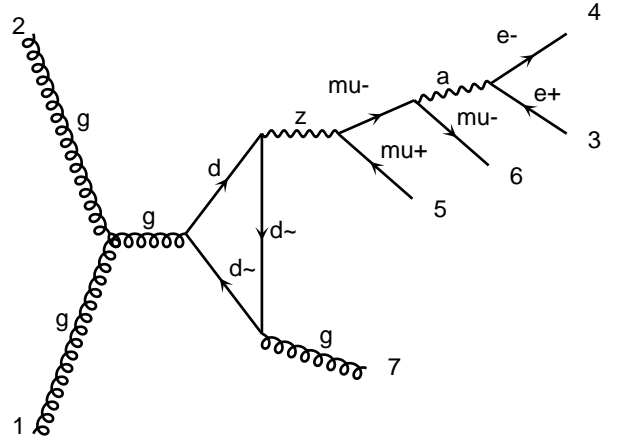


diagram 2 QCD=3, QED=4

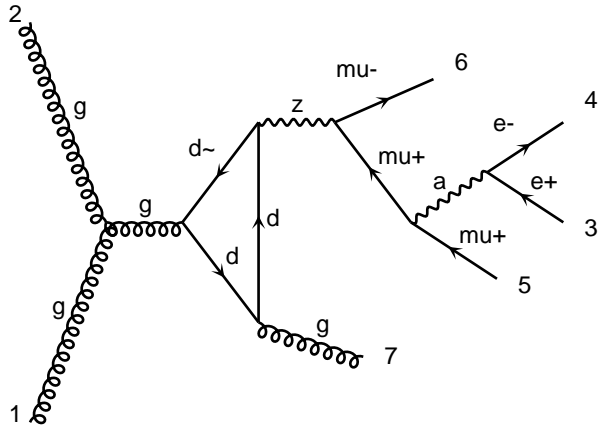


diagram 3 QCD=3, QED=4

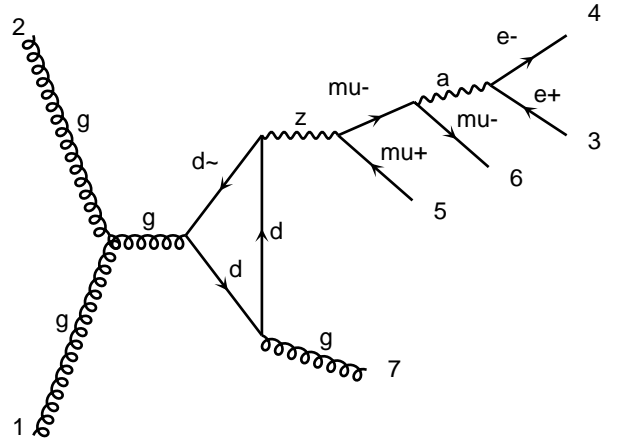


diagram 4 QCD=3, QED=4

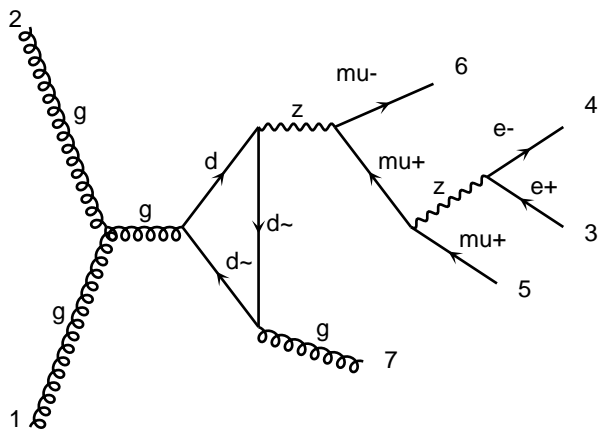


diagram 5 QCD=3, QED=4

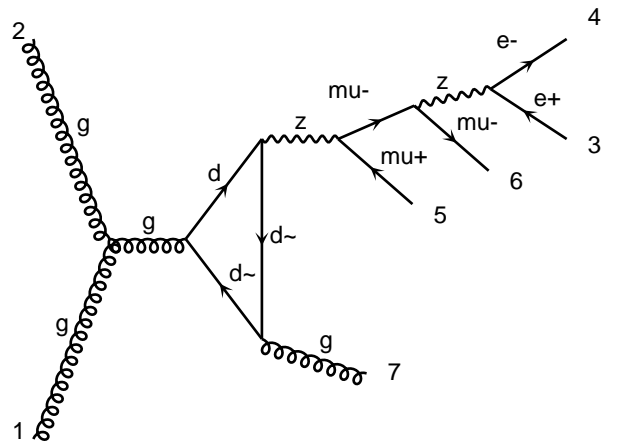


diagram 6 QCD=3, QED=4

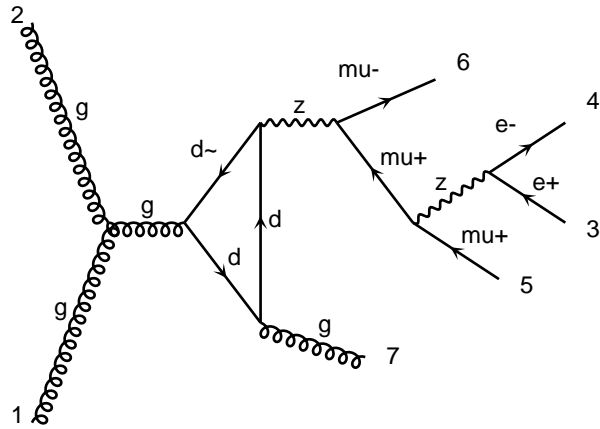


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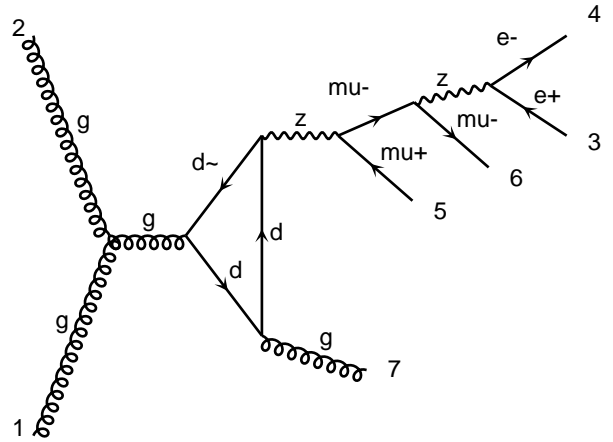


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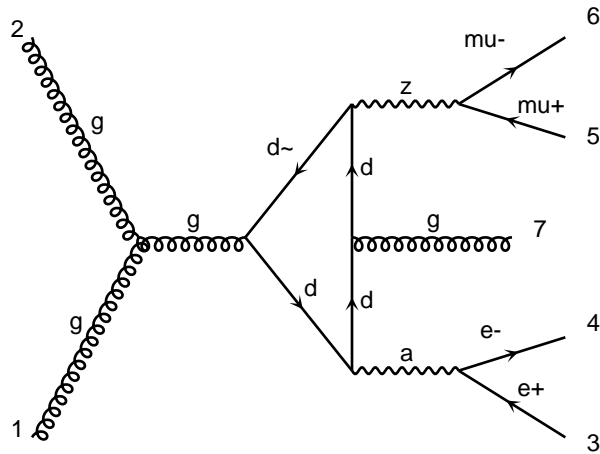


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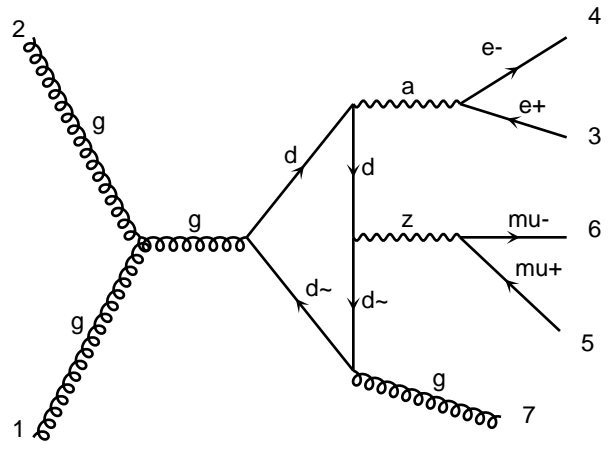


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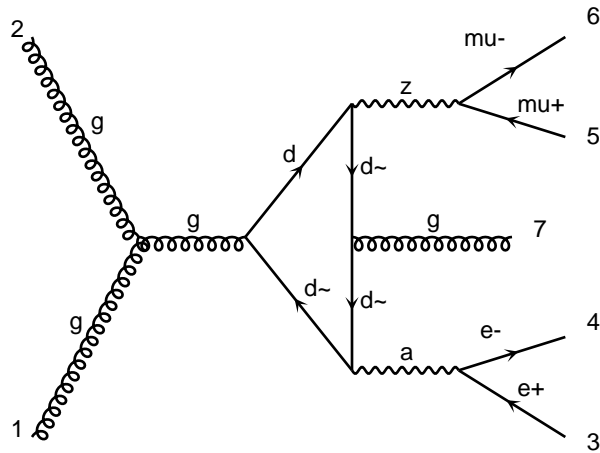


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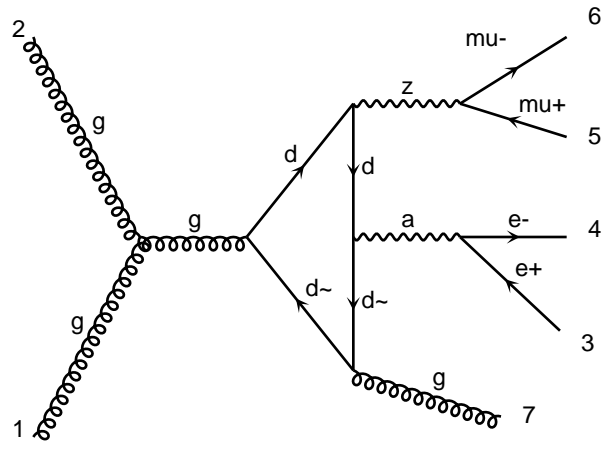


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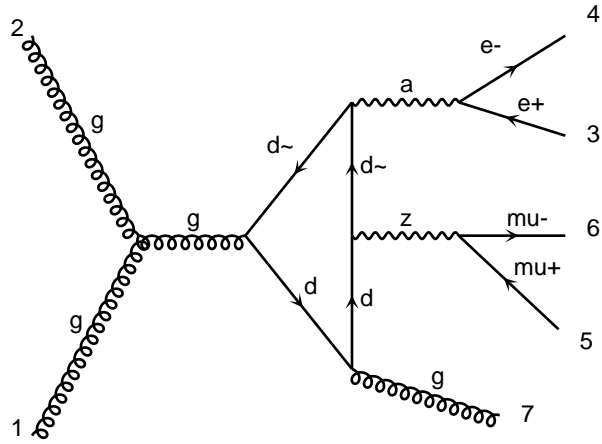


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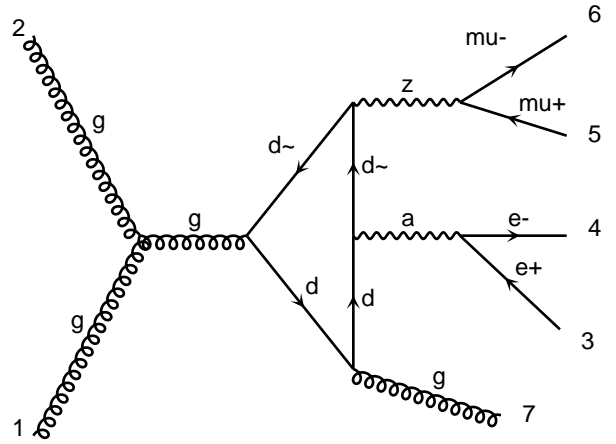


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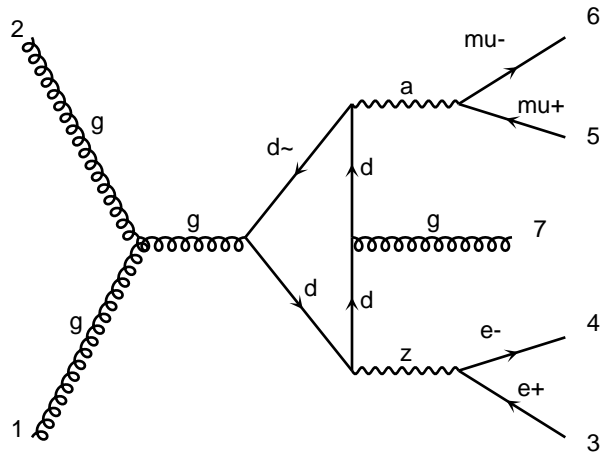


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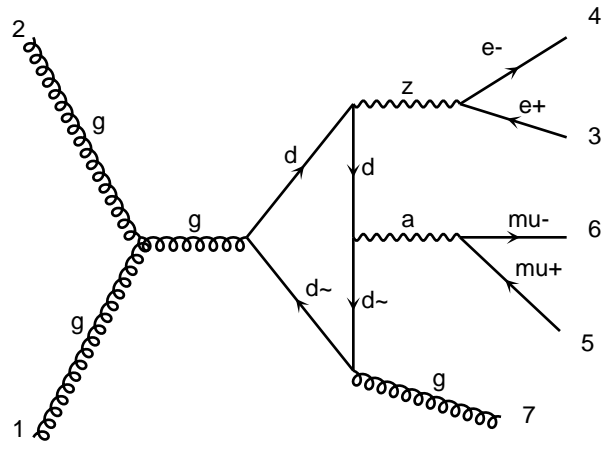


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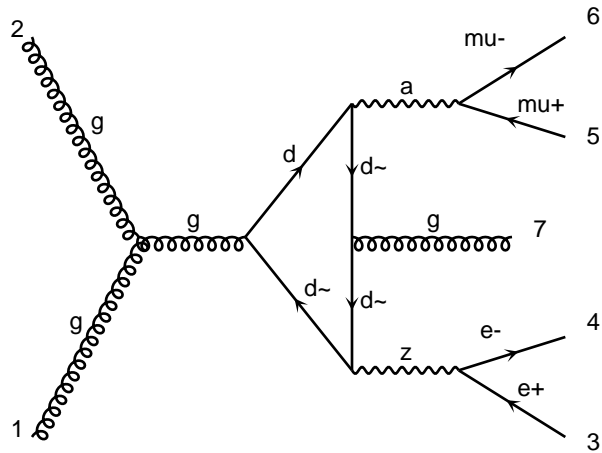


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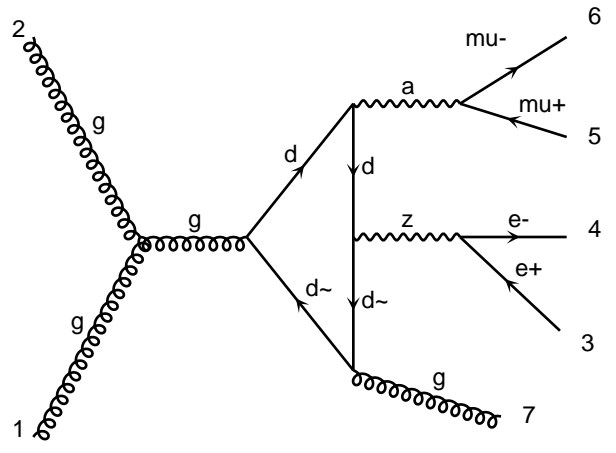


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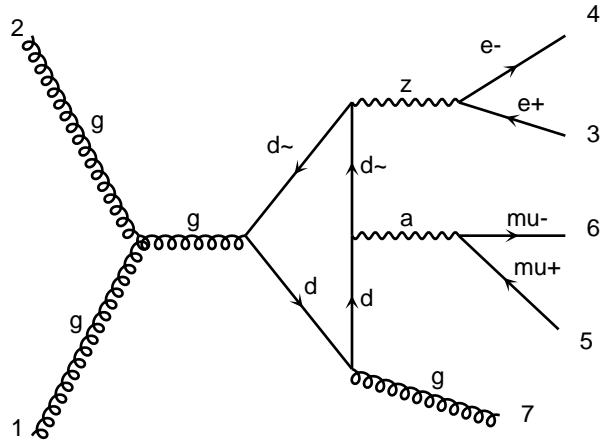


diagram 19

QCD=3, QED=4

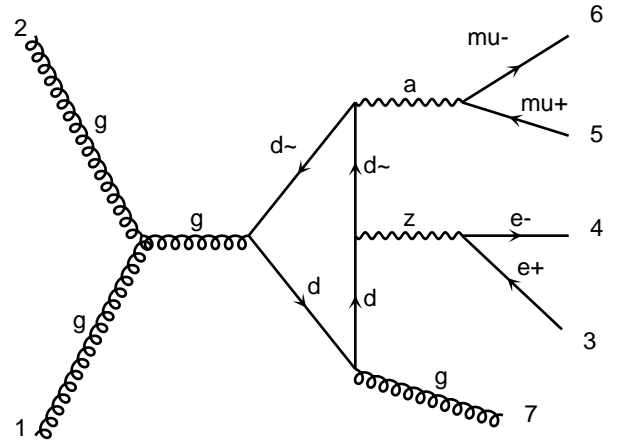


diagram 20

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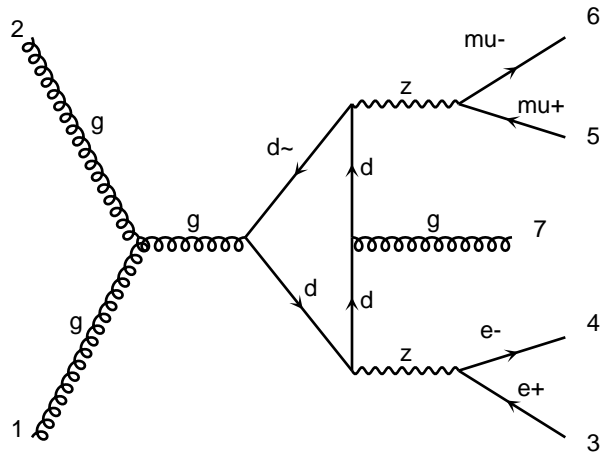


diagram 21

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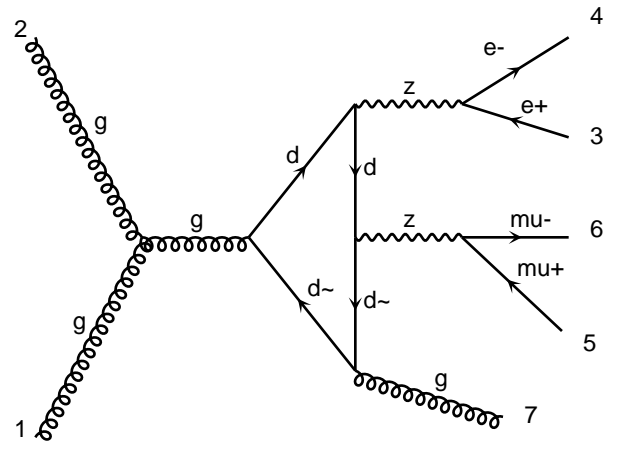


diagram 22

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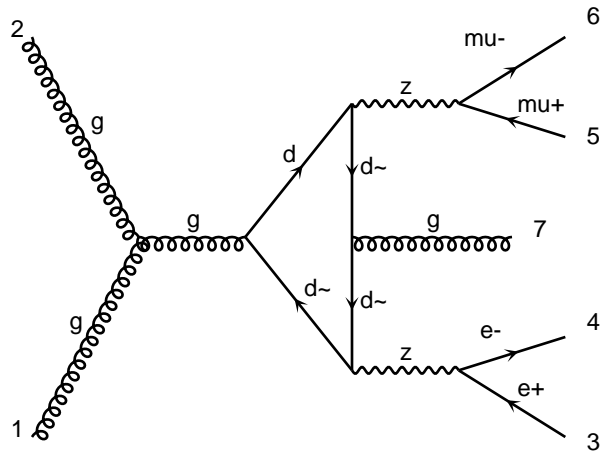


diagram 23

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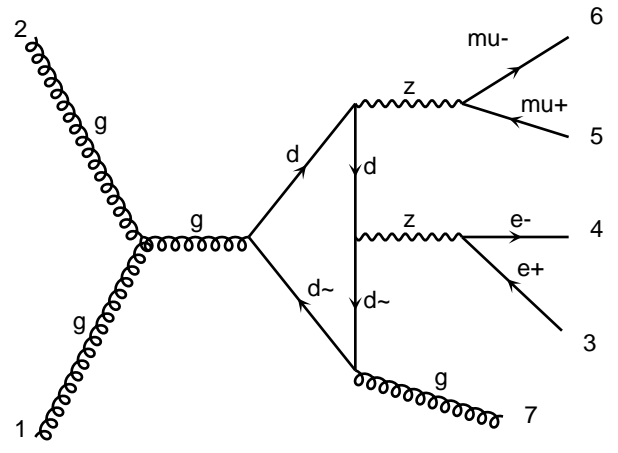


diagram 24

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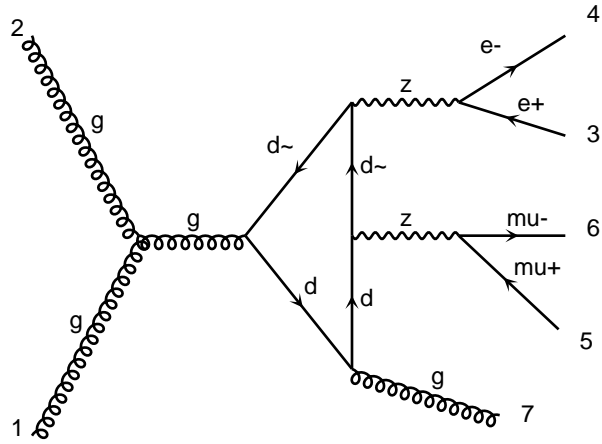


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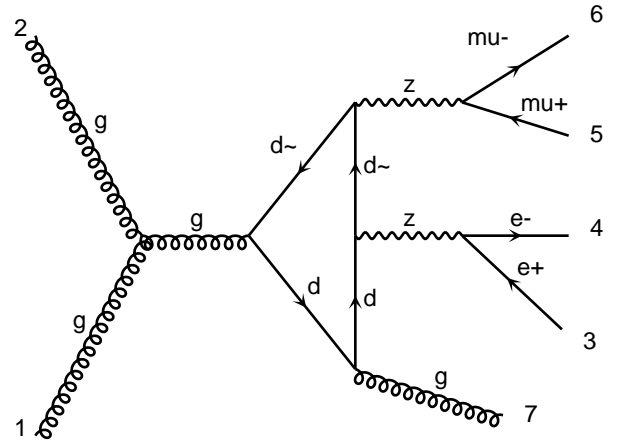


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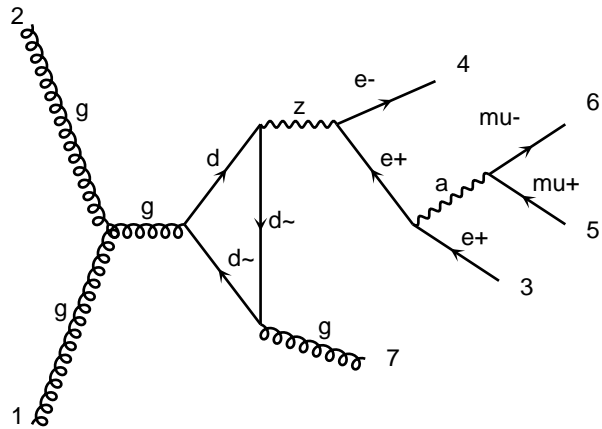


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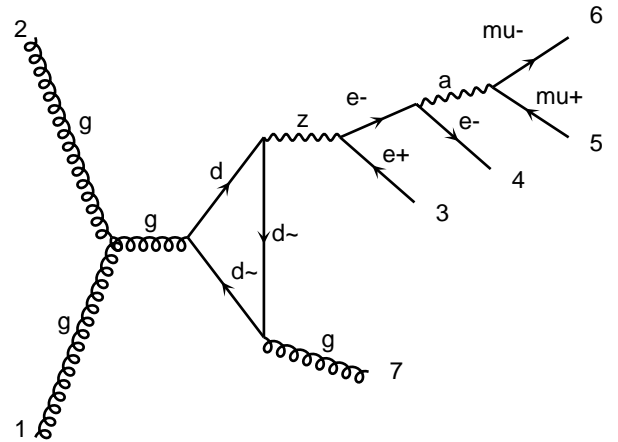


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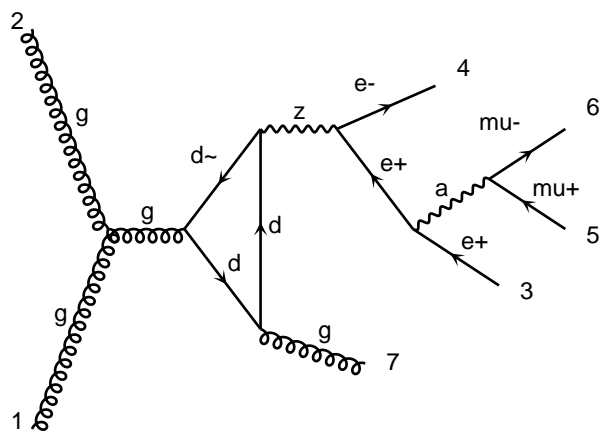


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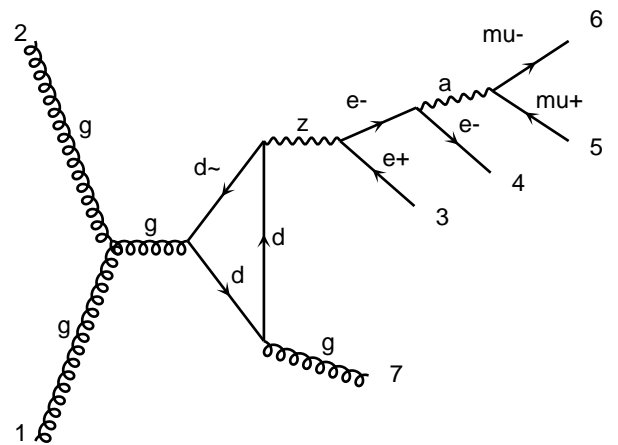


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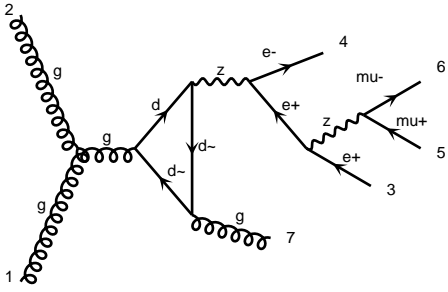


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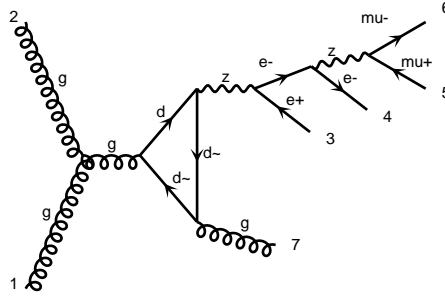


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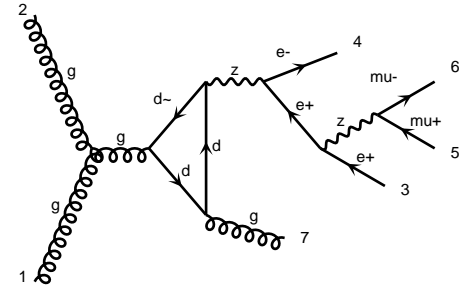


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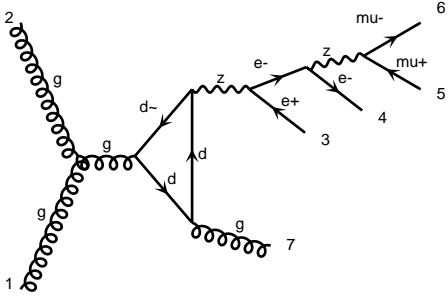


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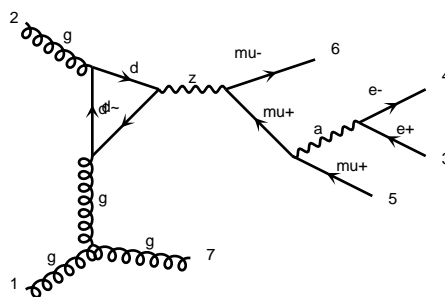


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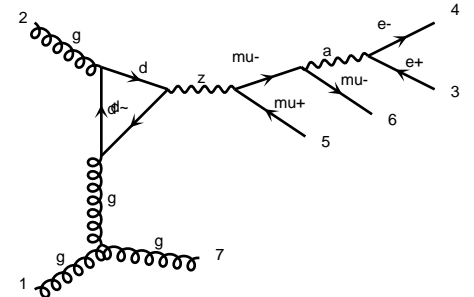


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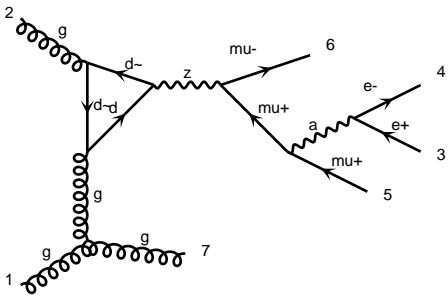


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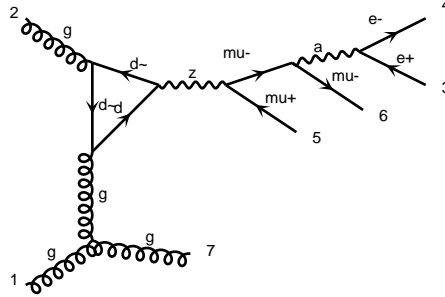


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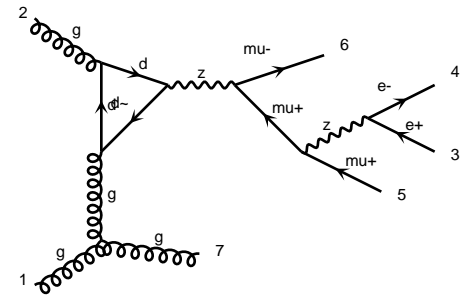


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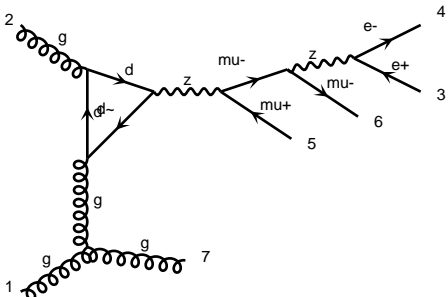


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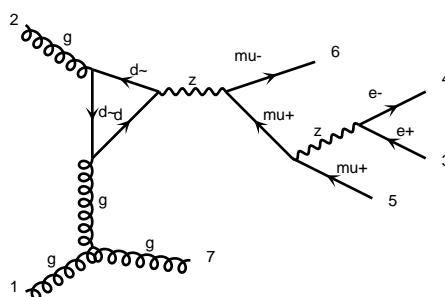


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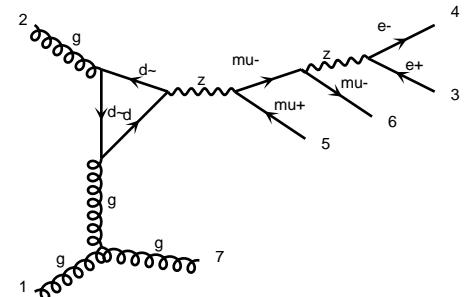


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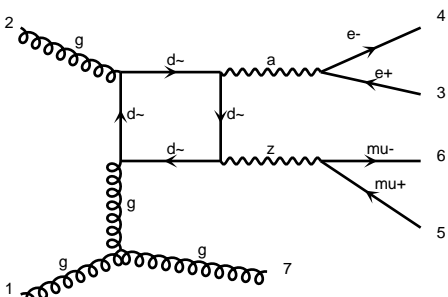


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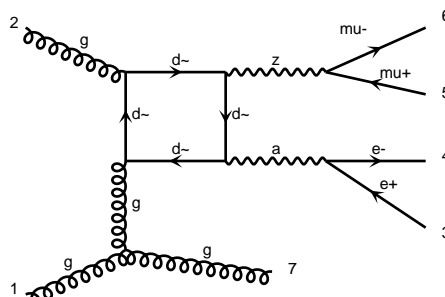


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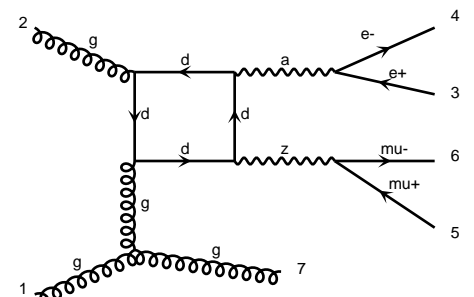


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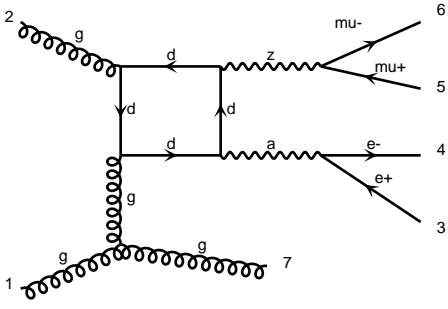


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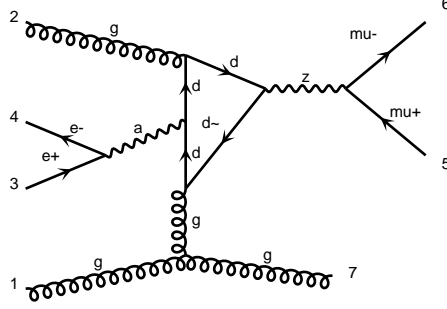


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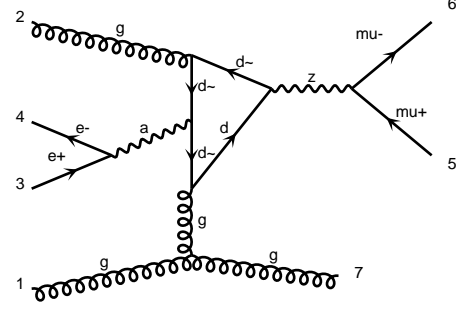


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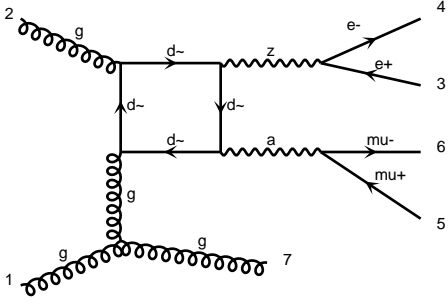


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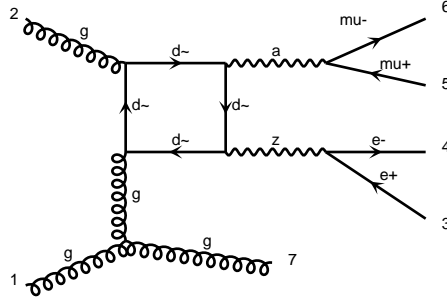


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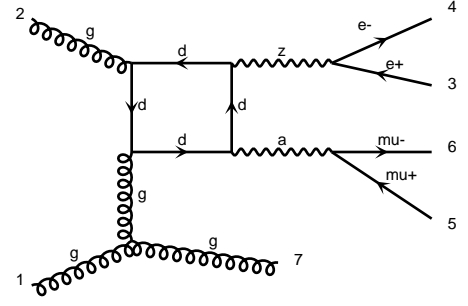


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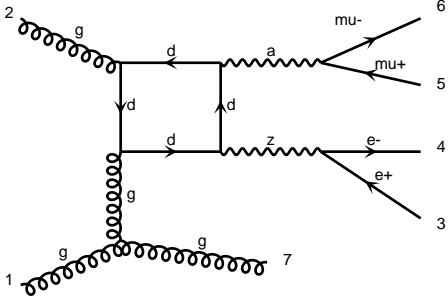


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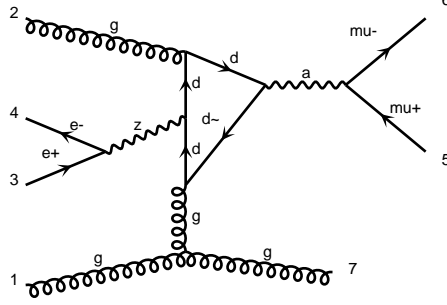


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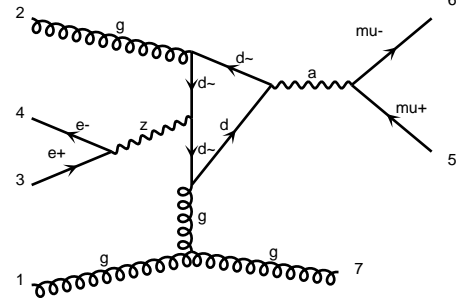


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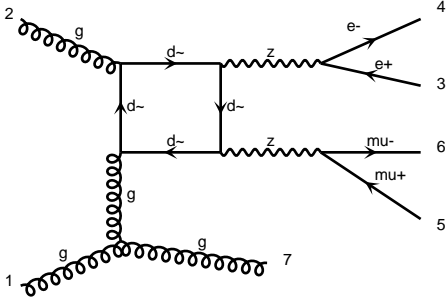


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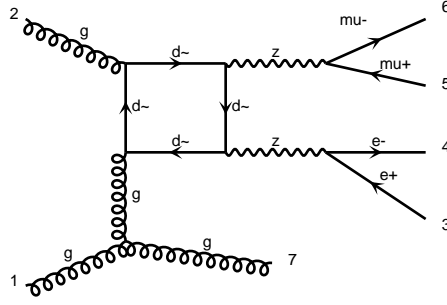


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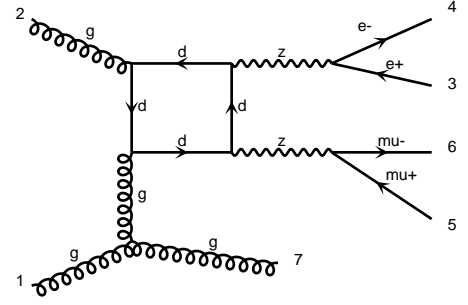


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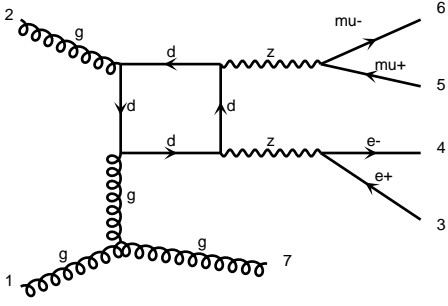


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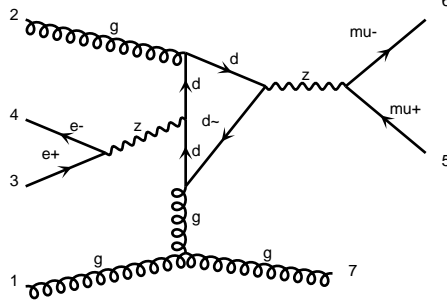


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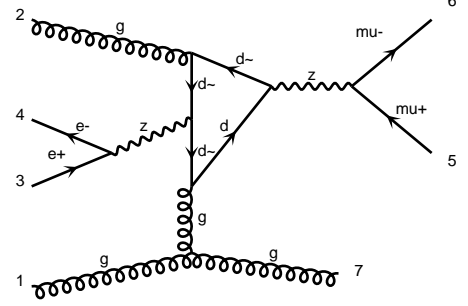


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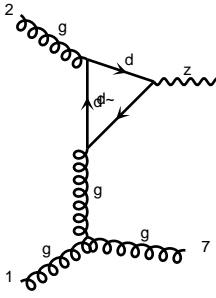


diagram 61

QCD=3, QED=4

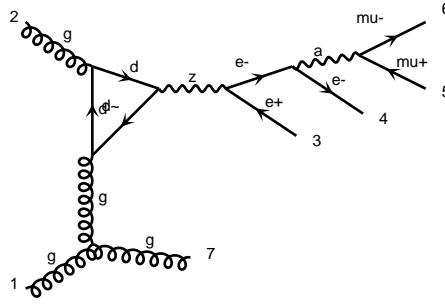


diagram 62

QCD=3, QED=4

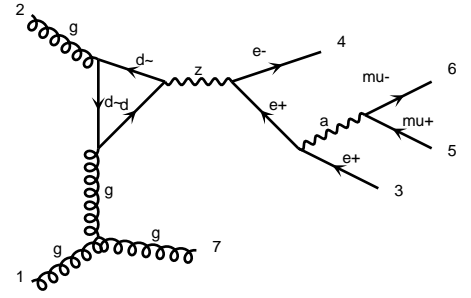


diagram 63

QCD=3, QED=4

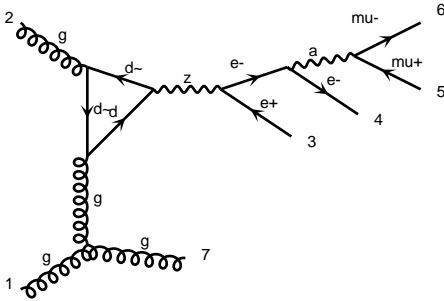


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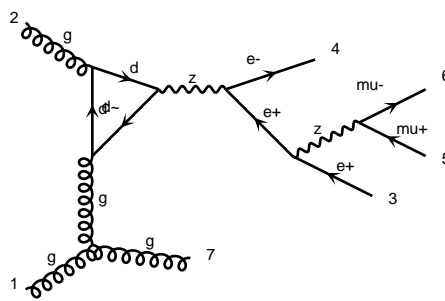


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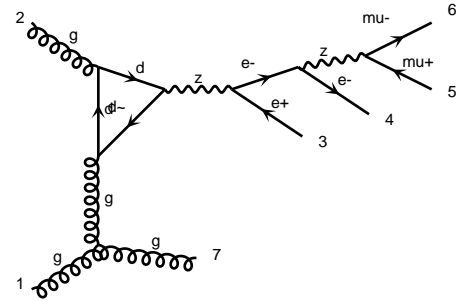


diagram 66

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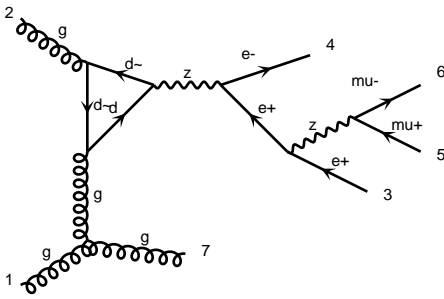


diagram 67

QCD=3, QED=4

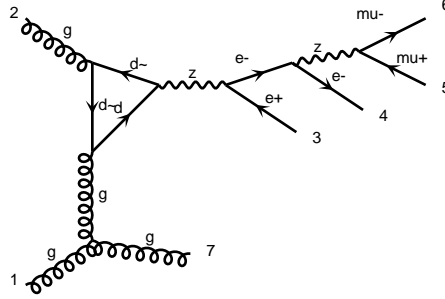


diagram 68

QCD=3, QED=4

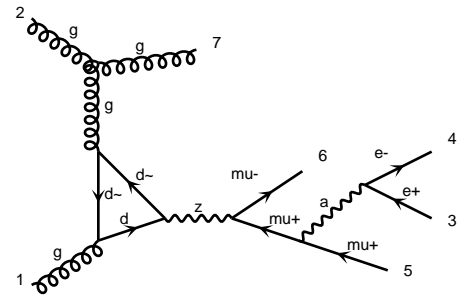


diagram 69

QCD=3, QED=4

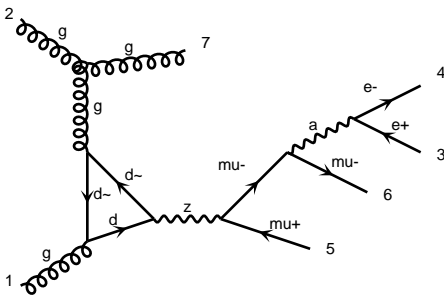


diagram 70

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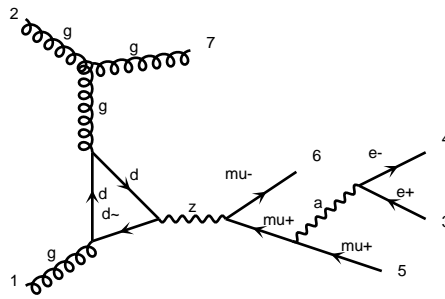


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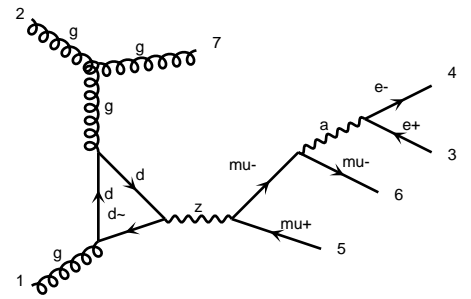


diagram 72

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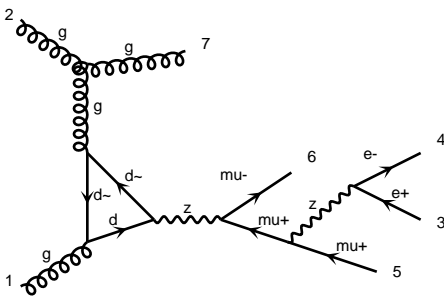


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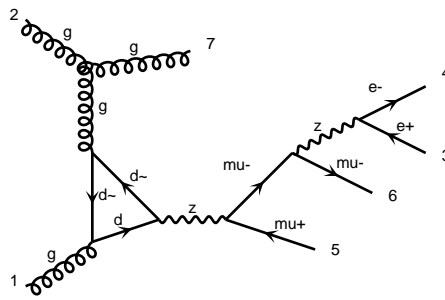


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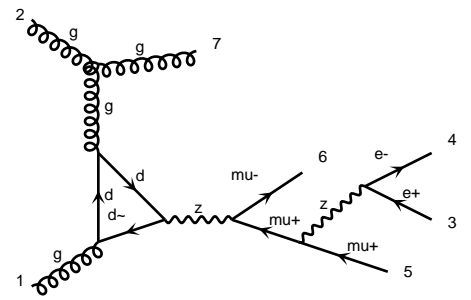


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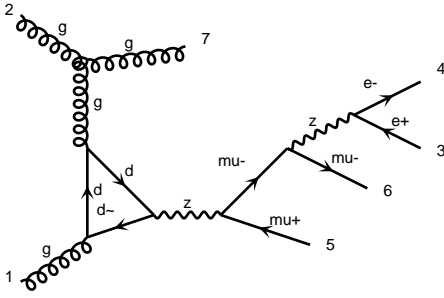


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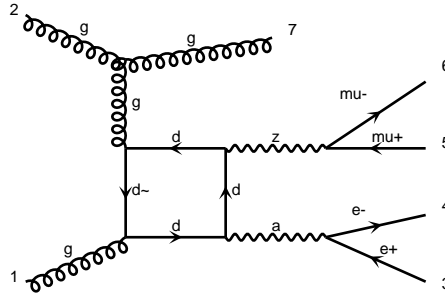


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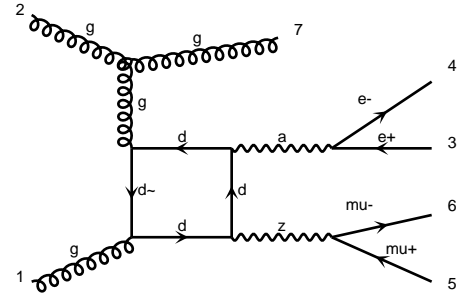


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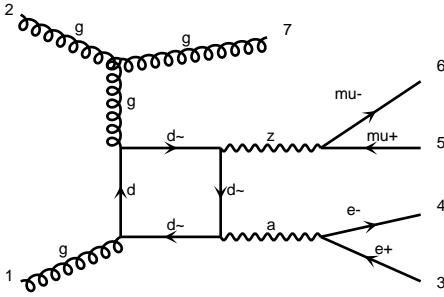


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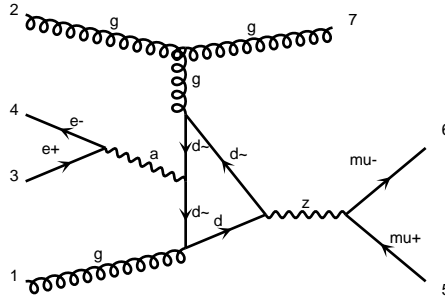


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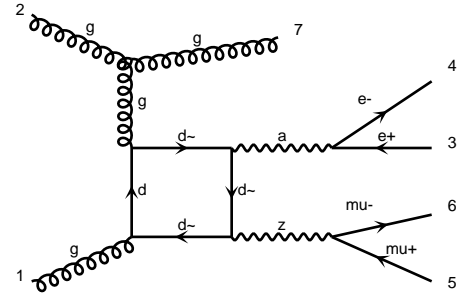


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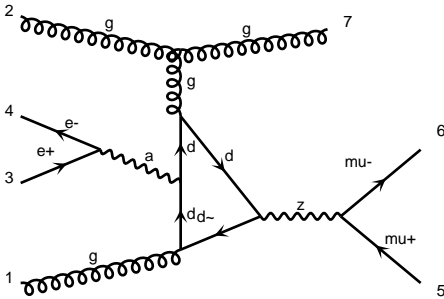


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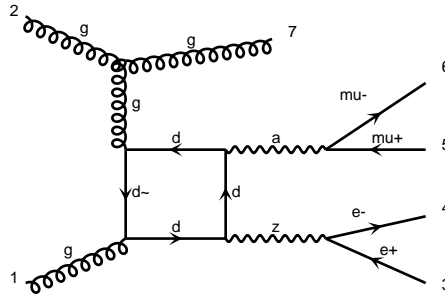


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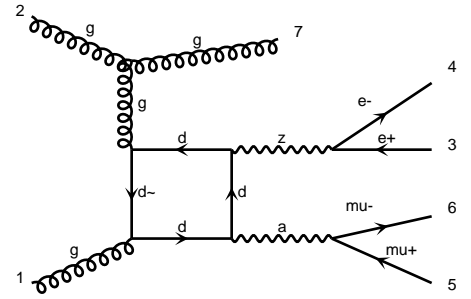


diagram 84 QCD=3, QED=4

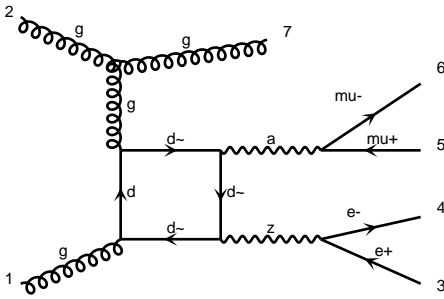


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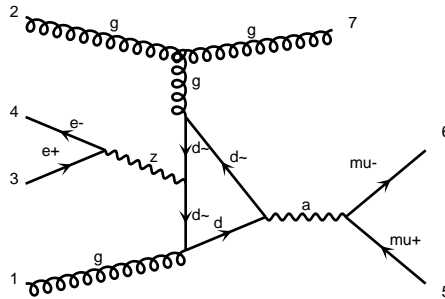


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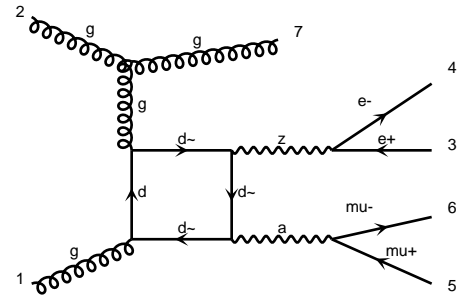


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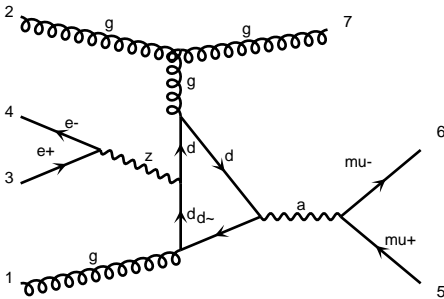


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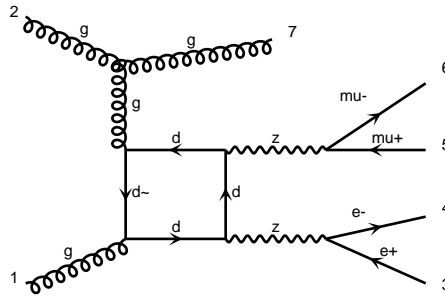


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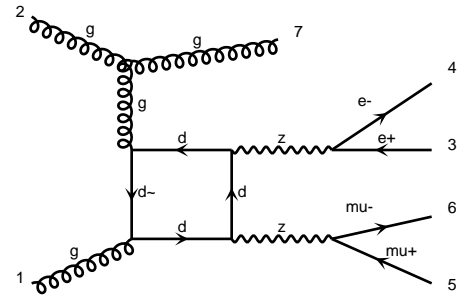


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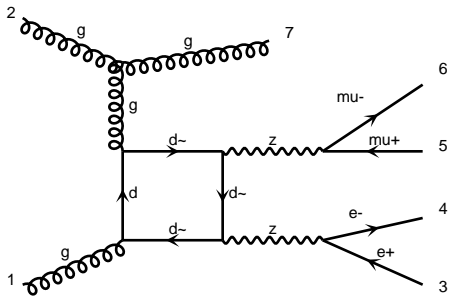


diagram 91 QCD=3, QED=4

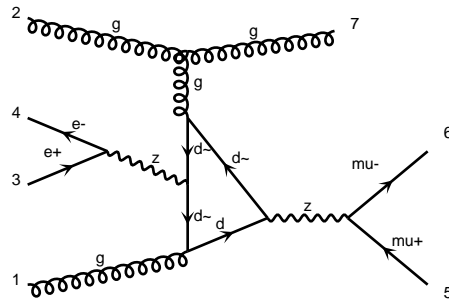


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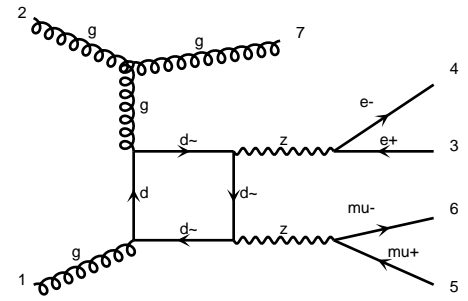


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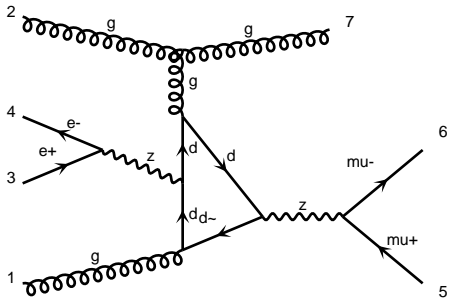


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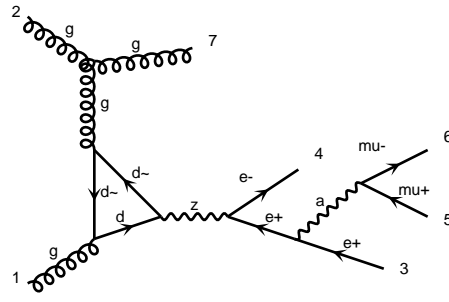


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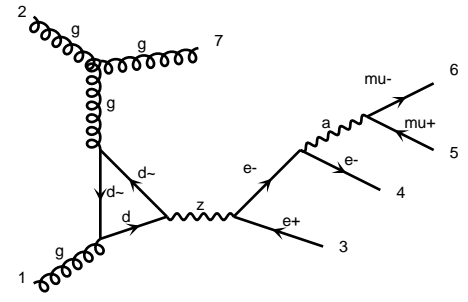


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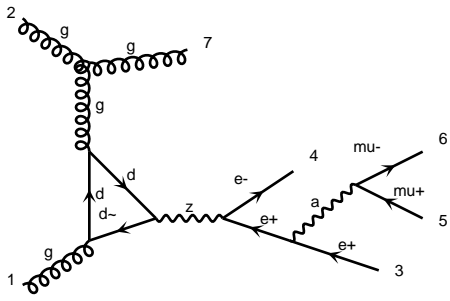


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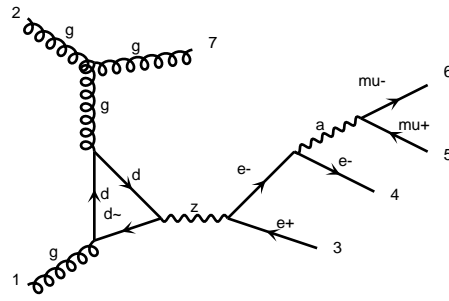


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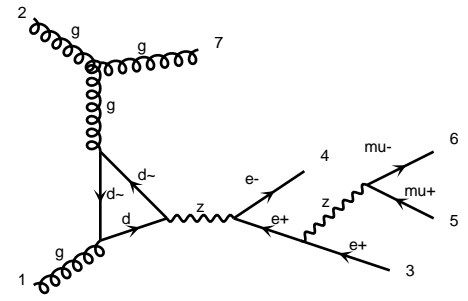


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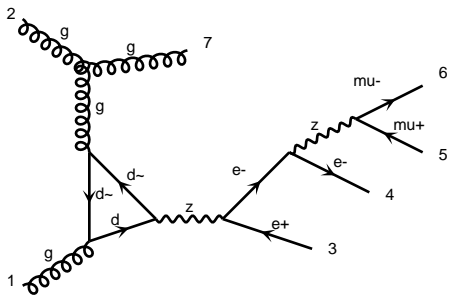


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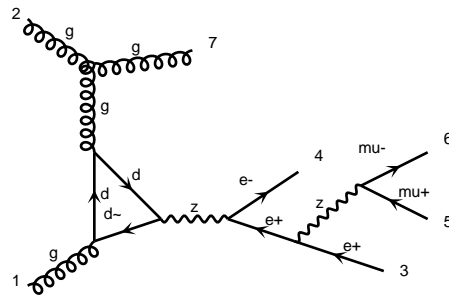


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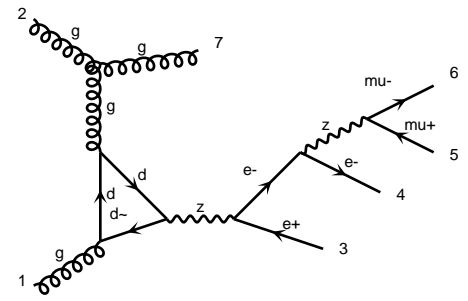


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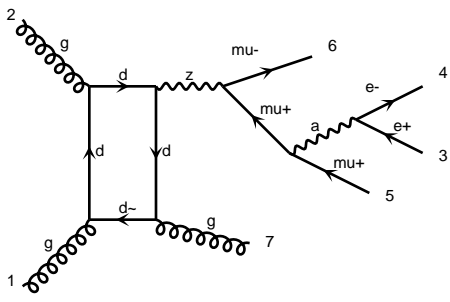


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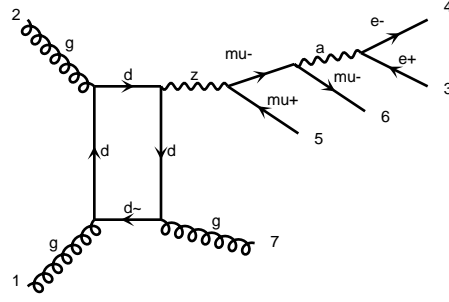


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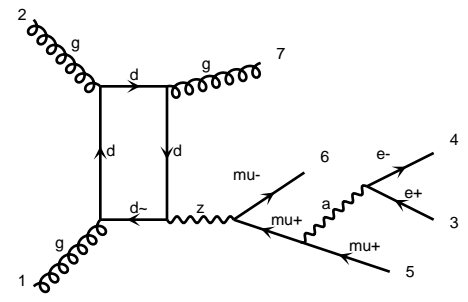


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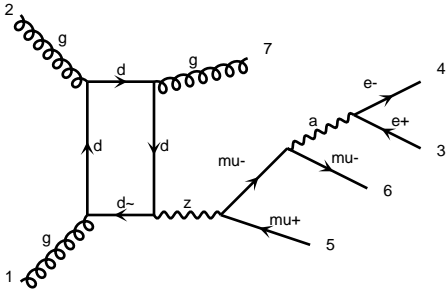


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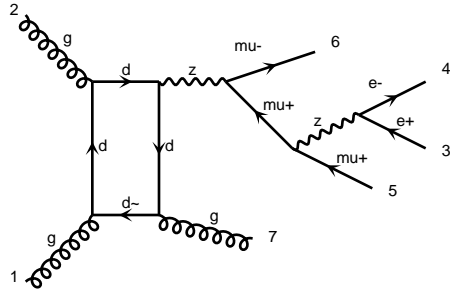


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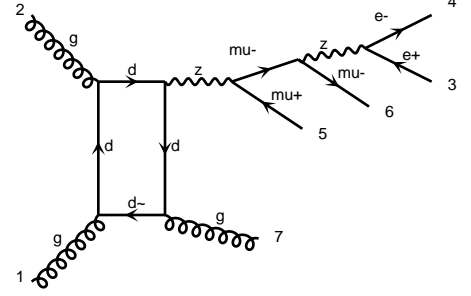


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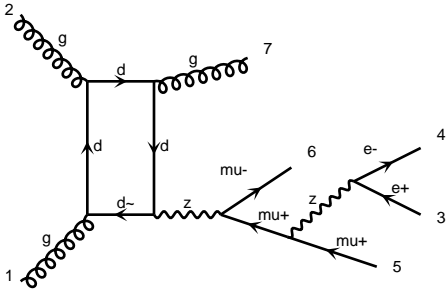


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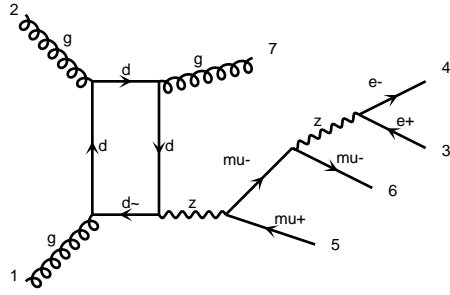


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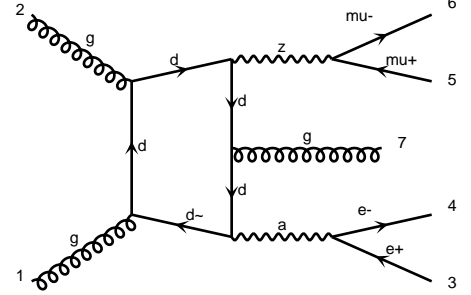


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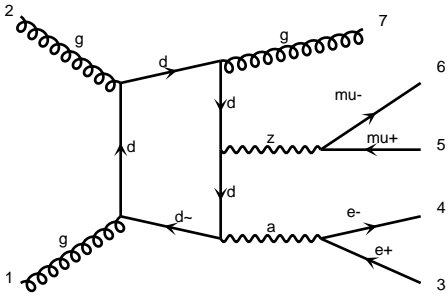


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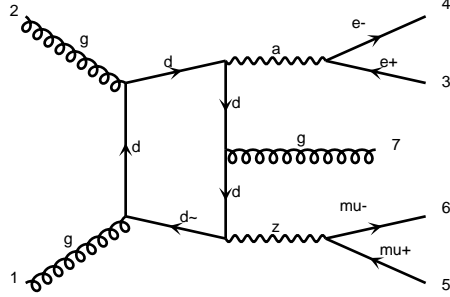


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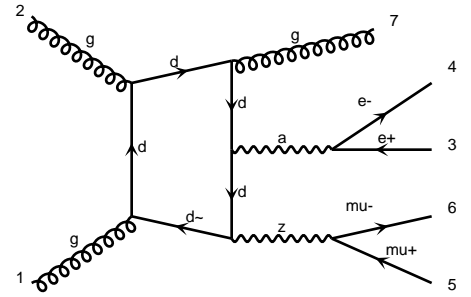


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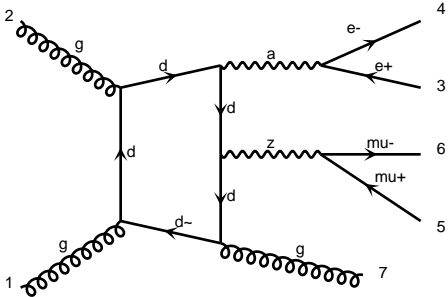


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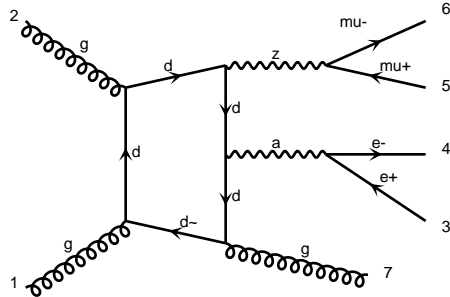


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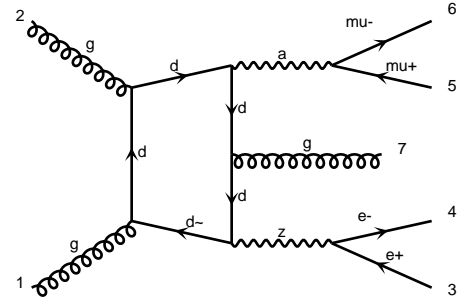


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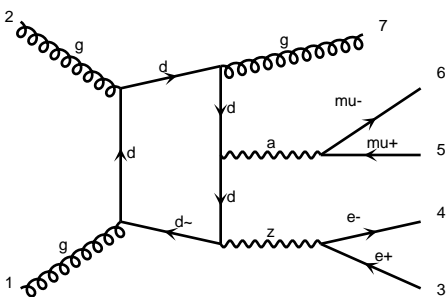


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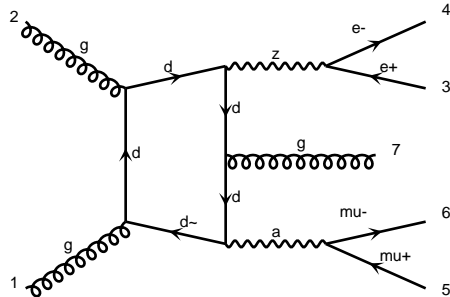


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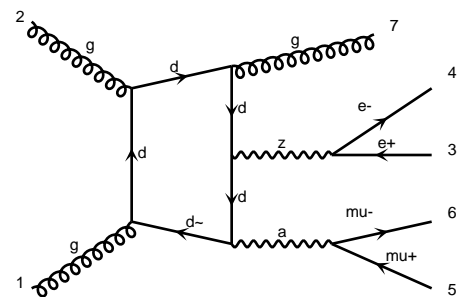


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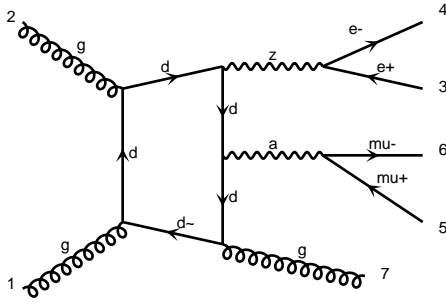


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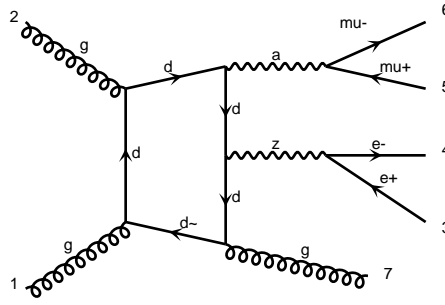


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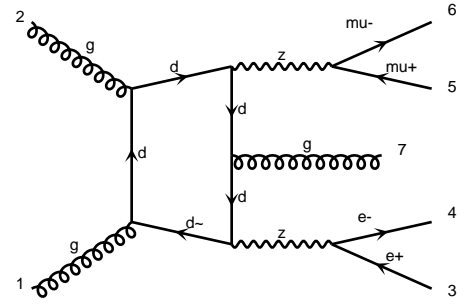


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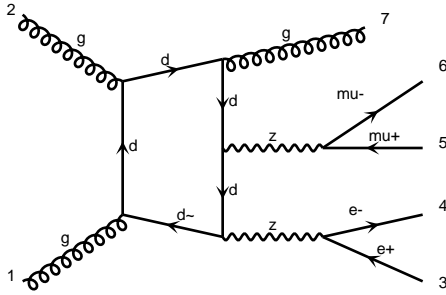


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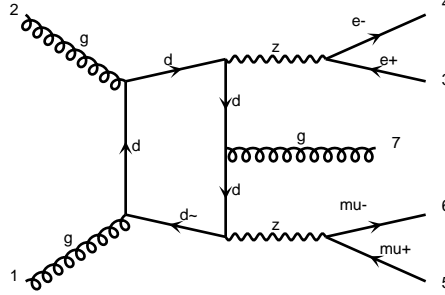


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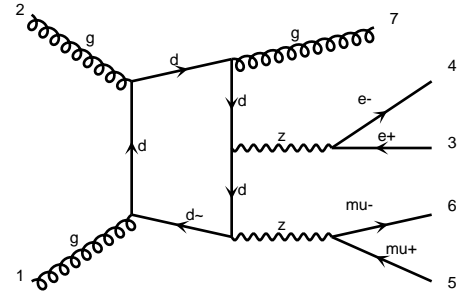


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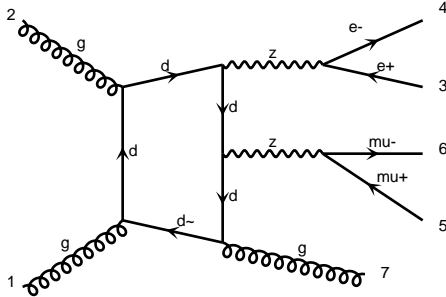


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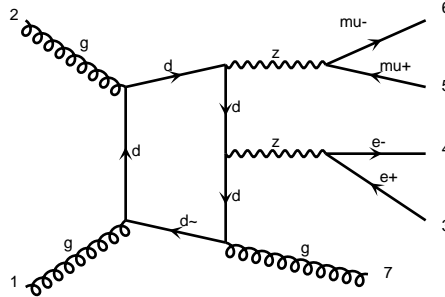


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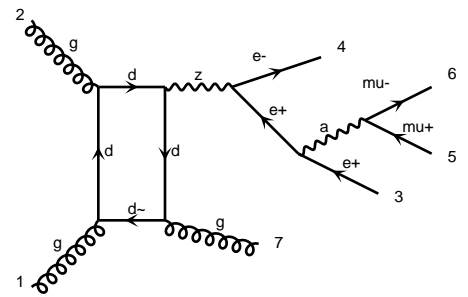


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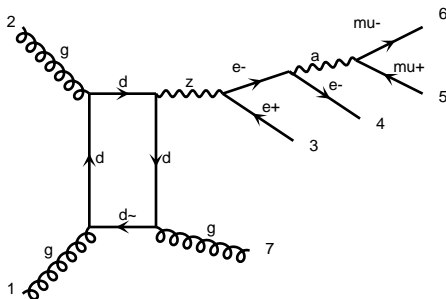


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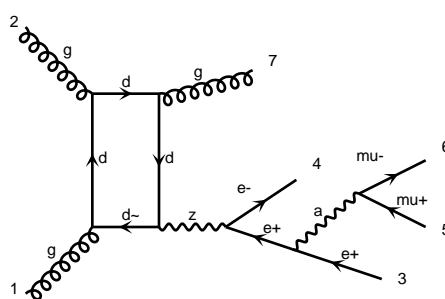


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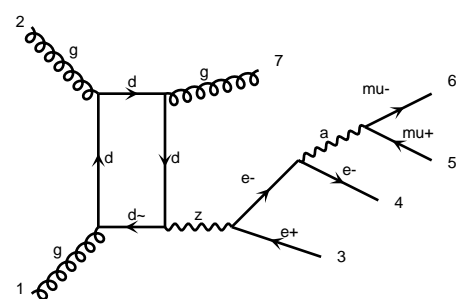


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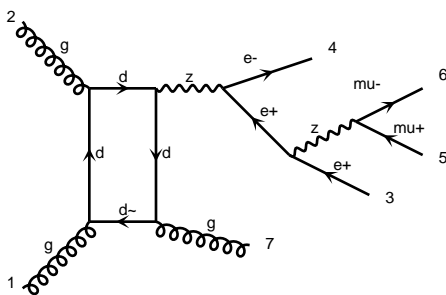


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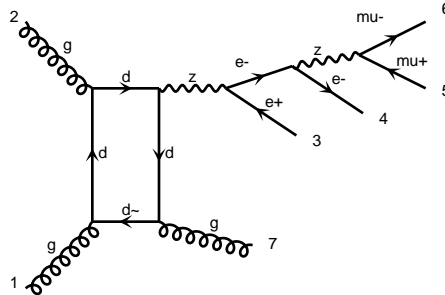


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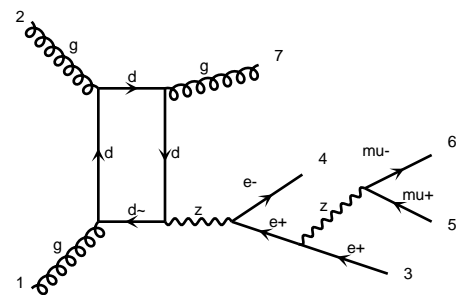


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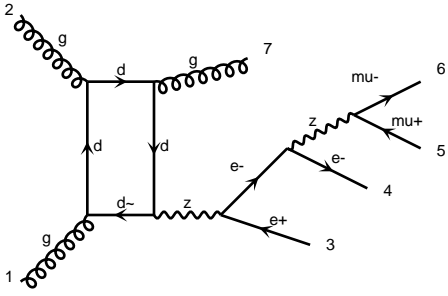


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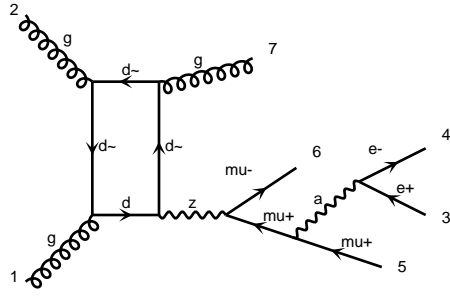


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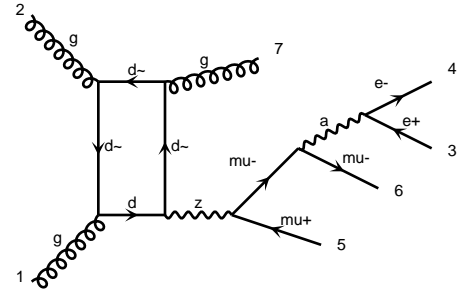


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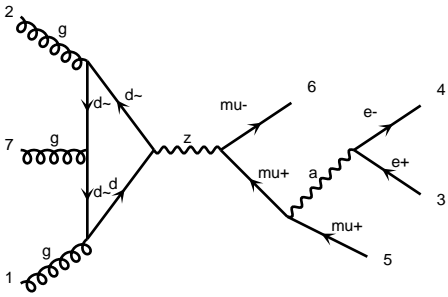


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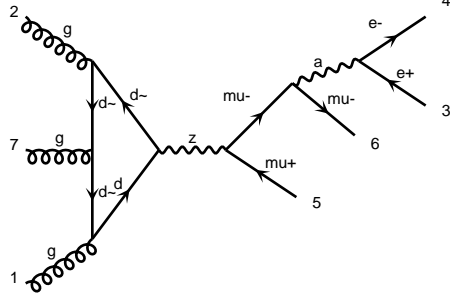


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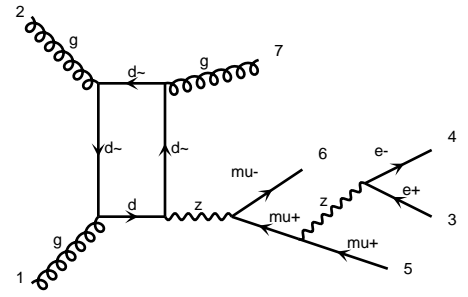


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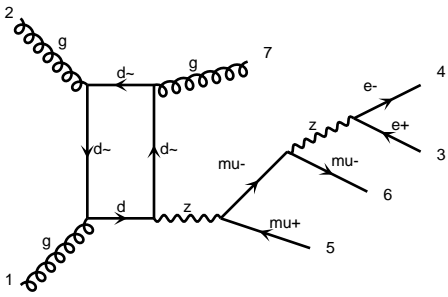


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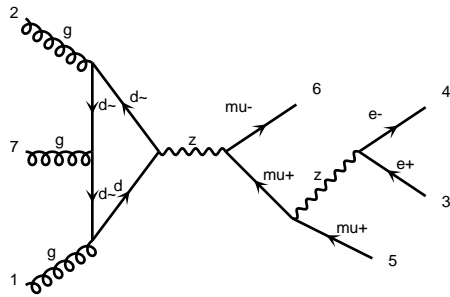


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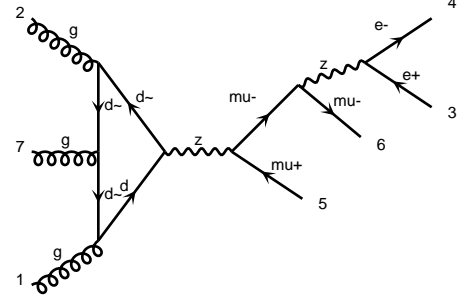


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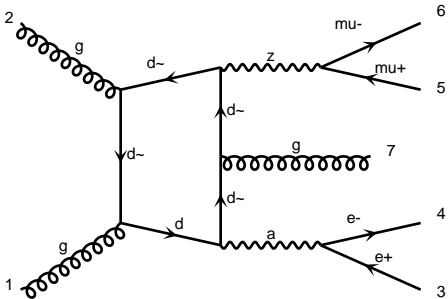


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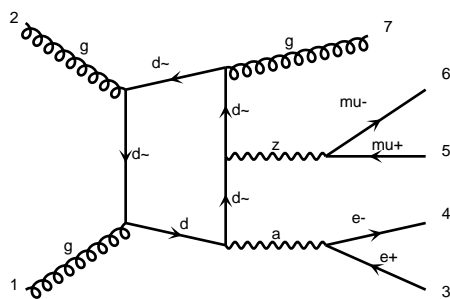


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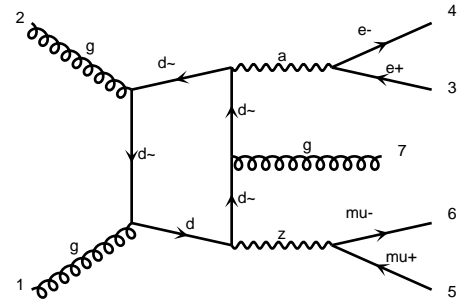


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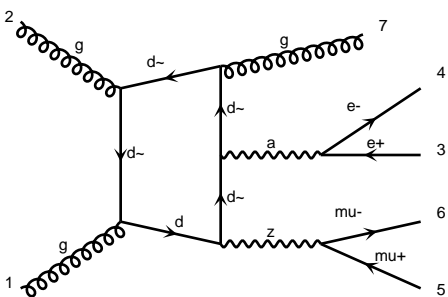


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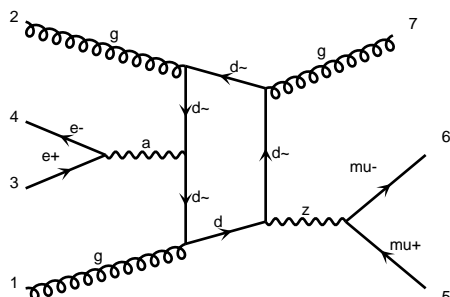


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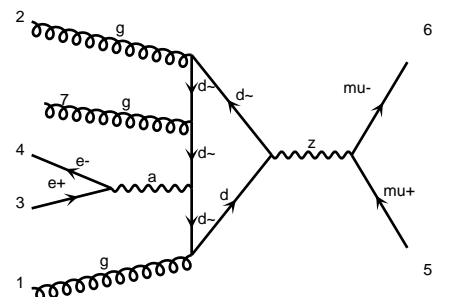


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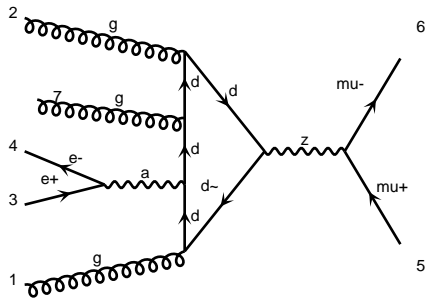


diagram 151

QCD=3, QED=4

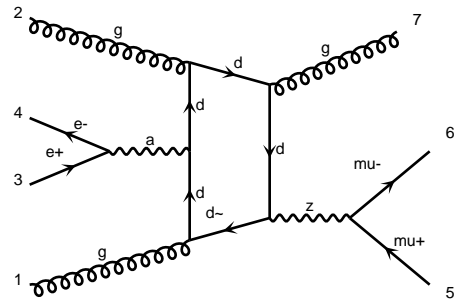


diagram 152

QCD=3, QED=4

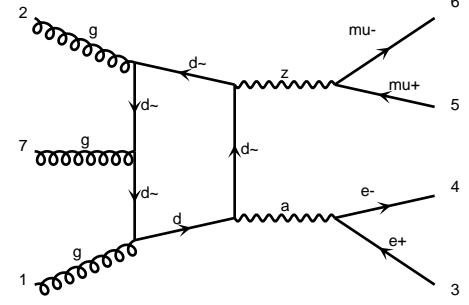


diagram 153

QCD=3, QED=4

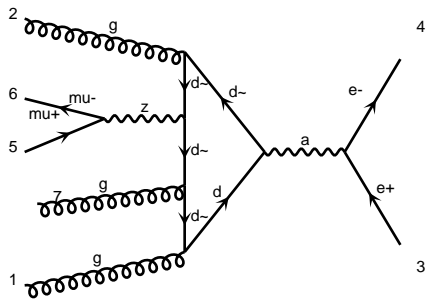


diagram 154

QCD=3, QED=4

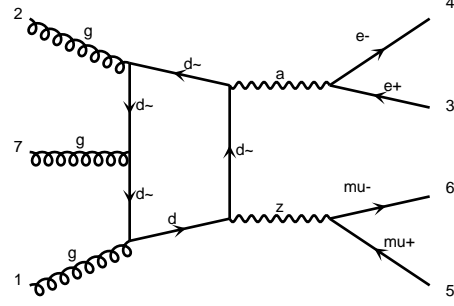


diagram 155

QCD=3, QED=4

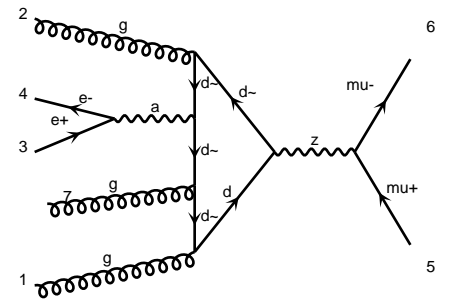


diagram 156

QCD=3, QED=4

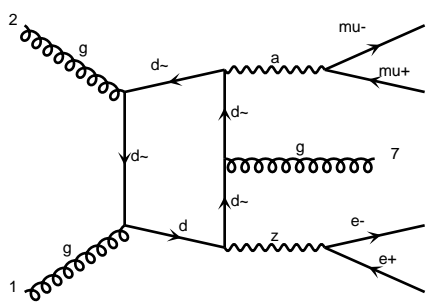


diagram 157

QCD=3, QED=4

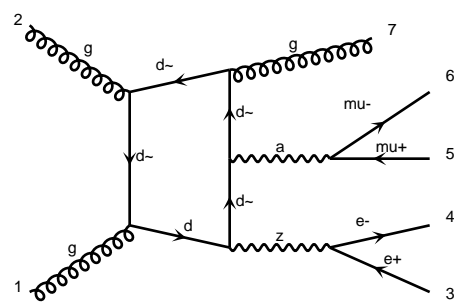


diagram 158

QCD=3, QED=4

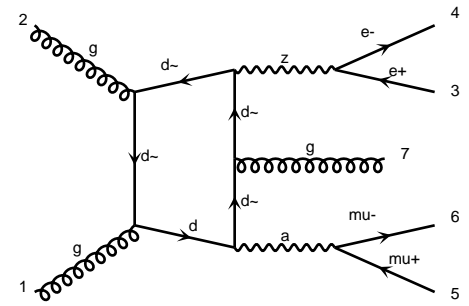


diagram 159

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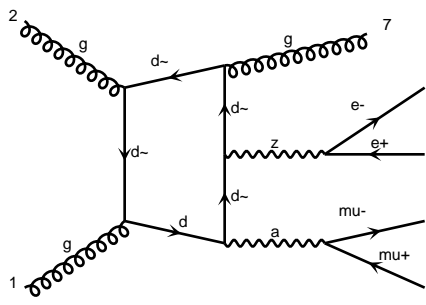


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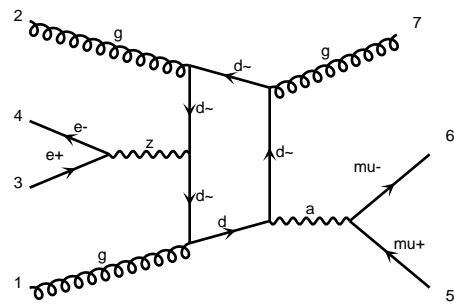


diagram 161

QCD=3, QED=4

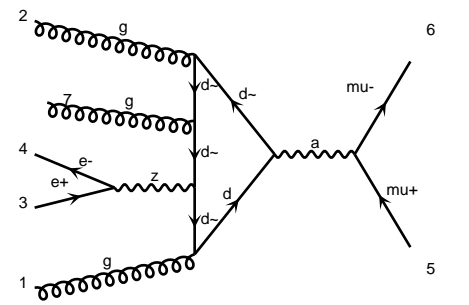


diagram 162

QCD=3, QED=4

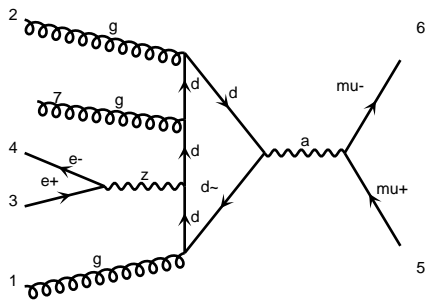


diagram 163

QCD=3, QED=4

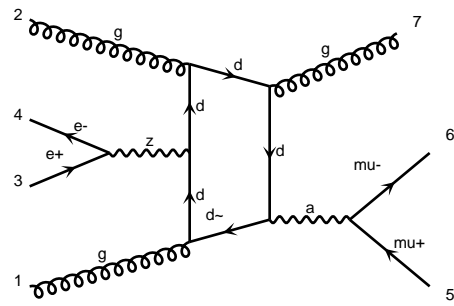


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QCD=3, QED=4

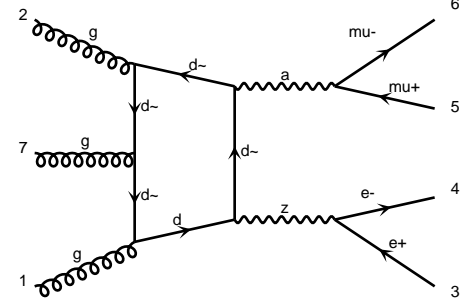


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QCD=3, QED=4

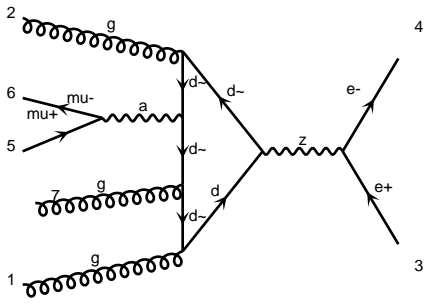


diagram 166 QCD=3, QED=4

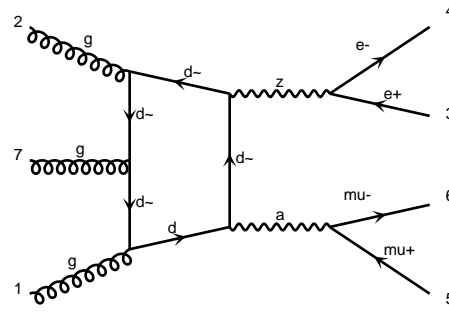


diagram 167 QCD=3, QED=4

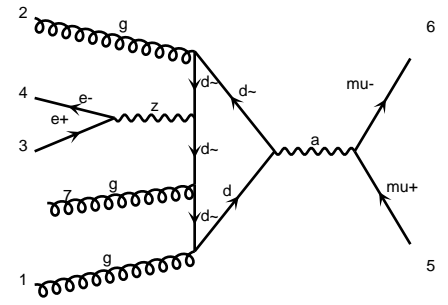


diagram 168 QCD=3, QED=4

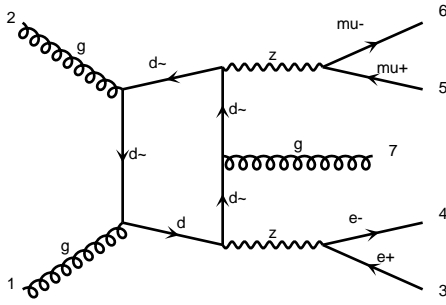


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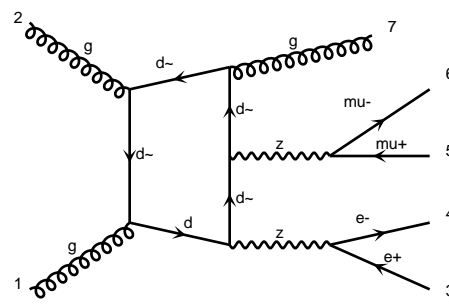


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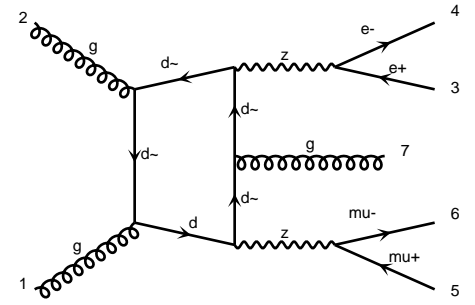


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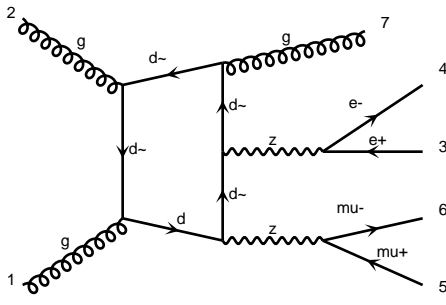


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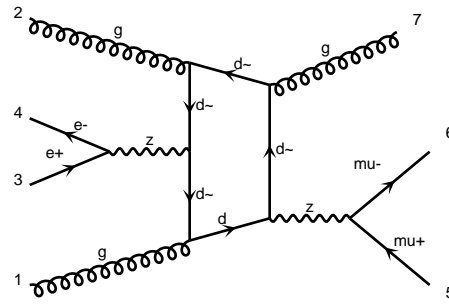


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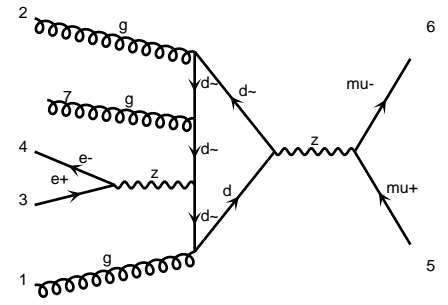


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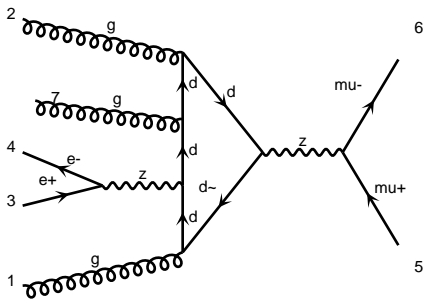


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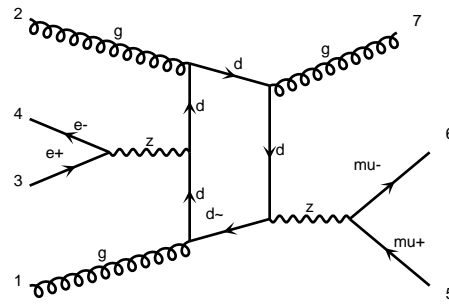


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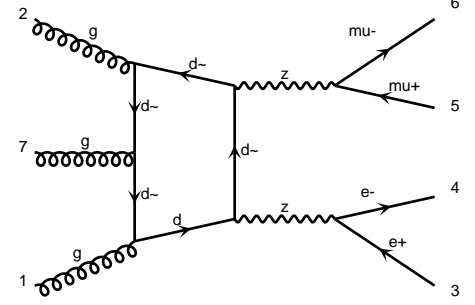


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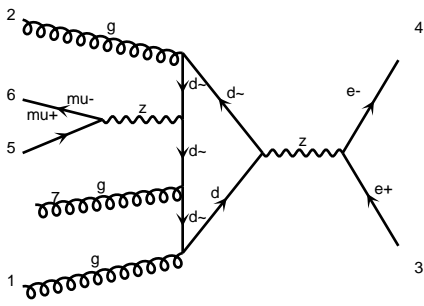


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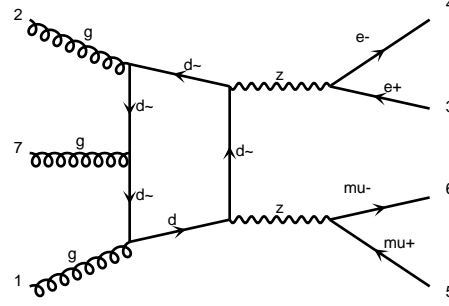


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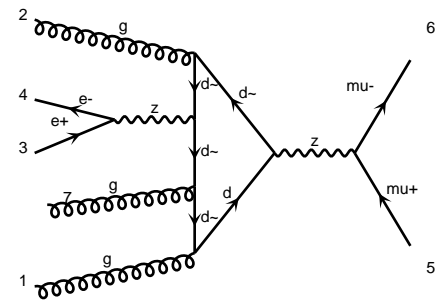


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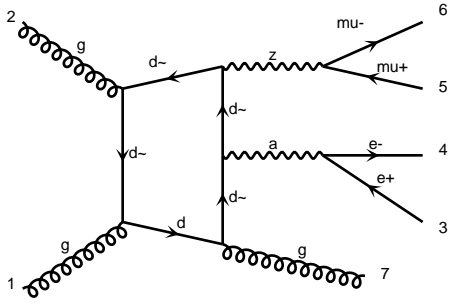


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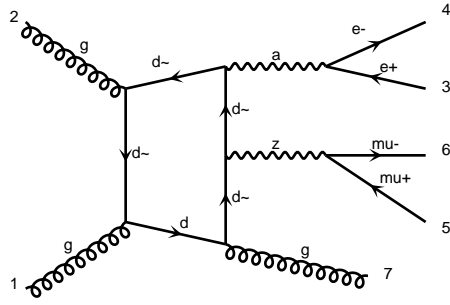


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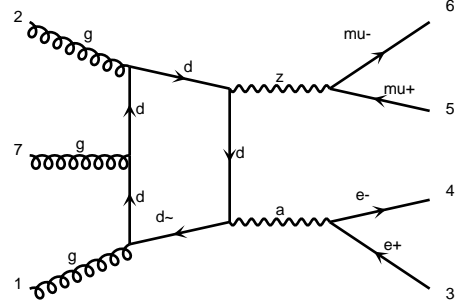


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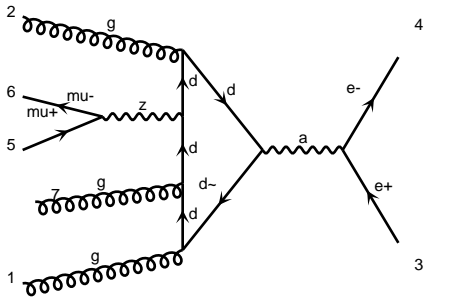


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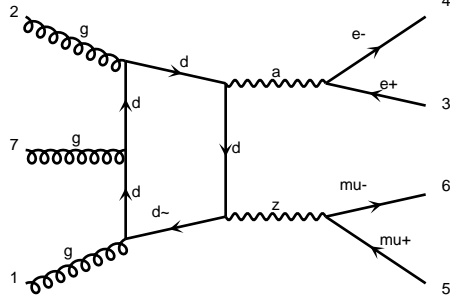


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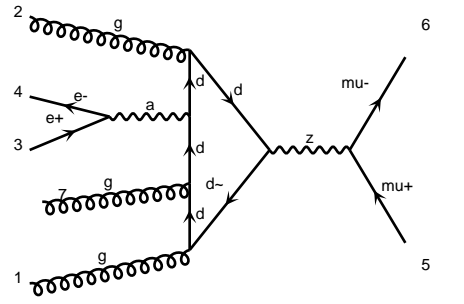


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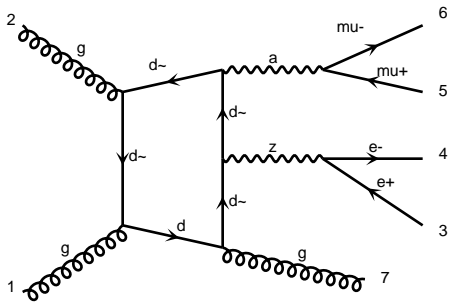


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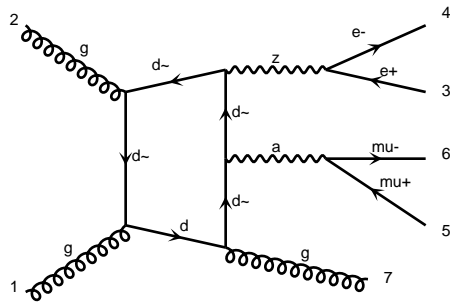


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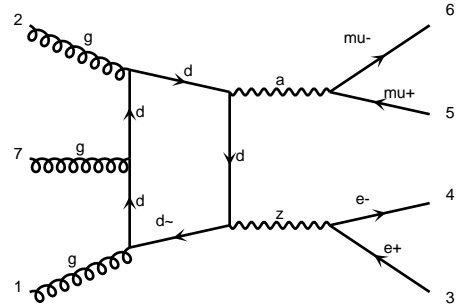


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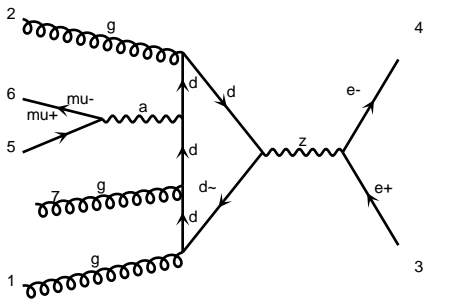


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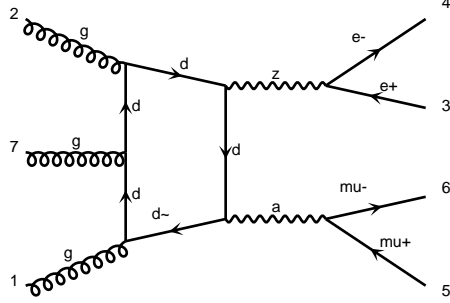


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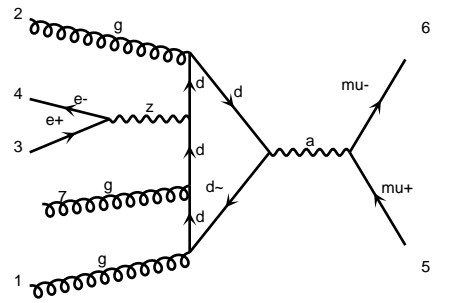


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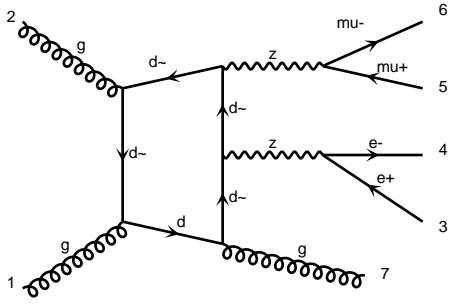


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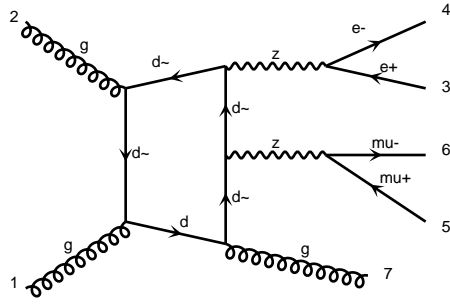


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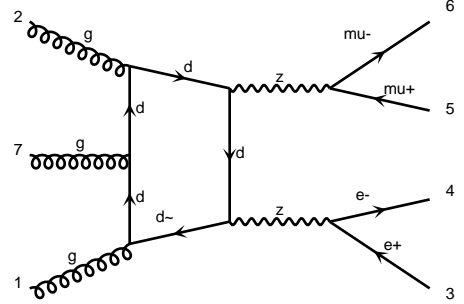


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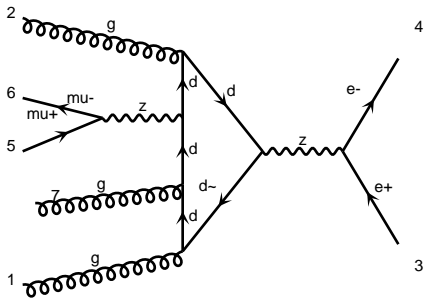


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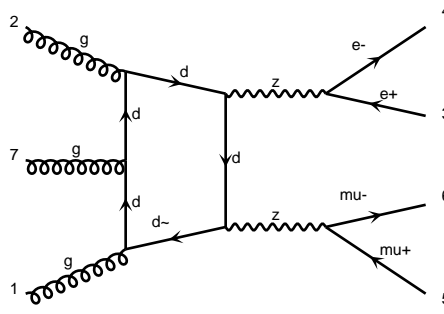


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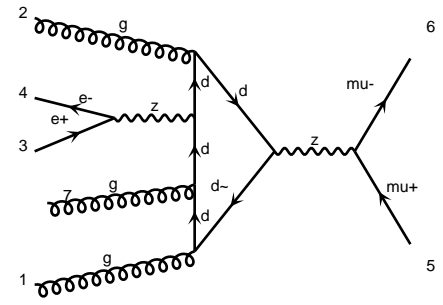


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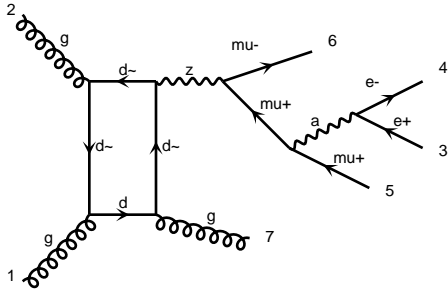


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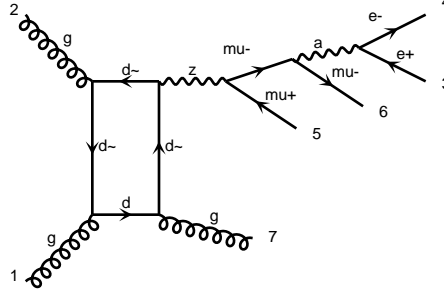


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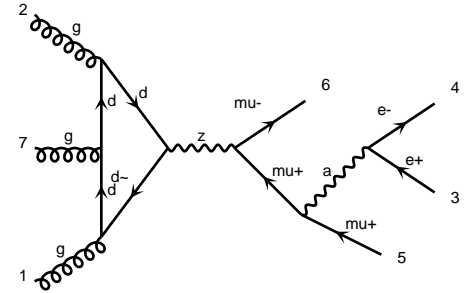


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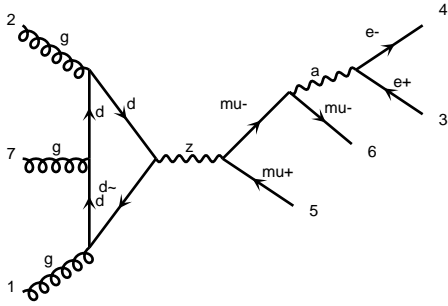


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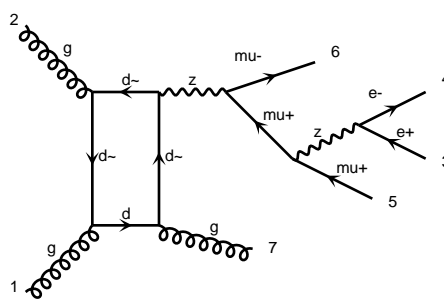


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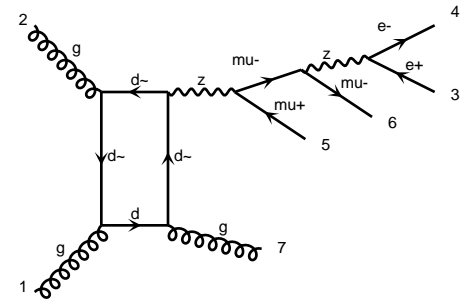


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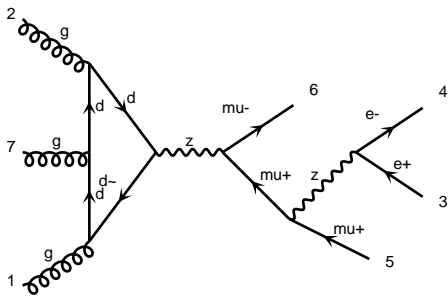


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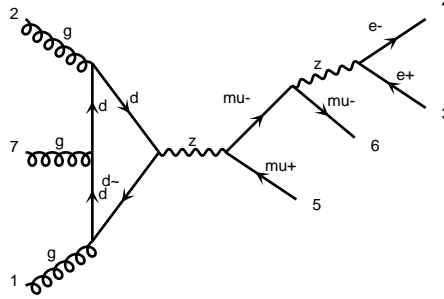


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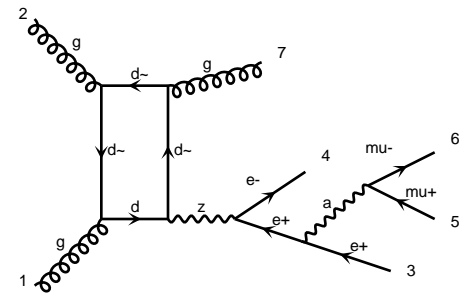


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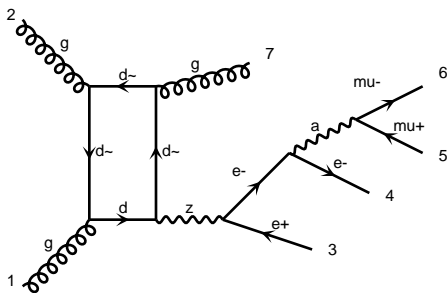


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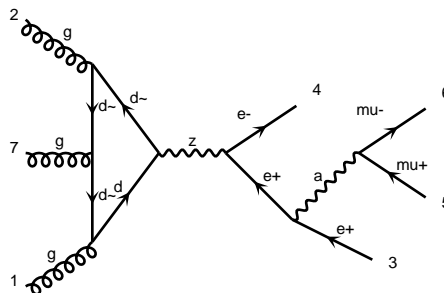


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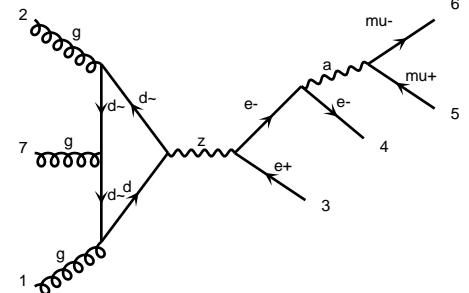


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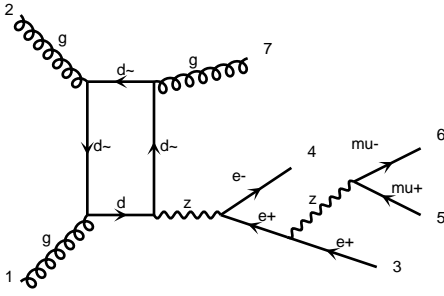


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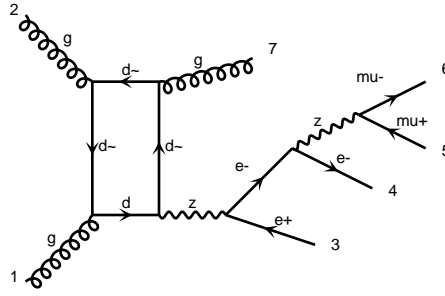


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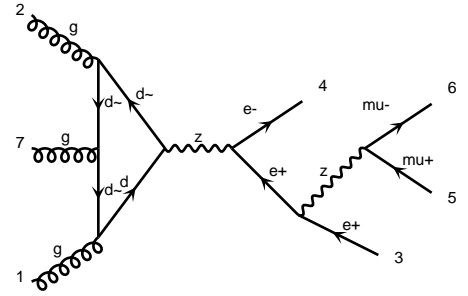


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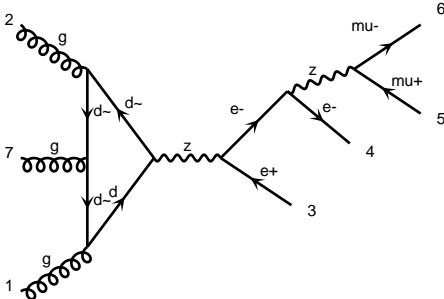


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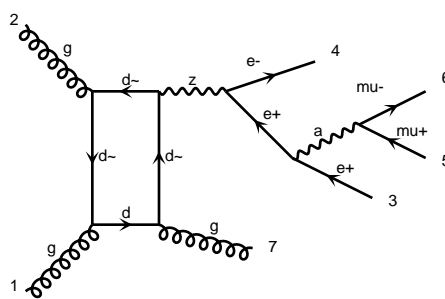


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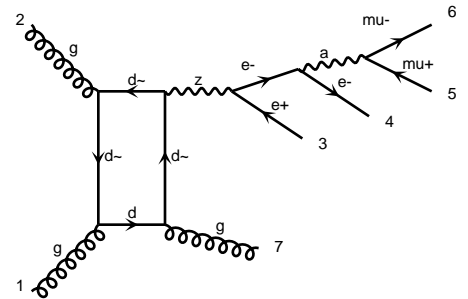


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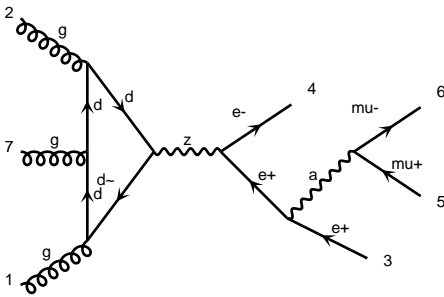


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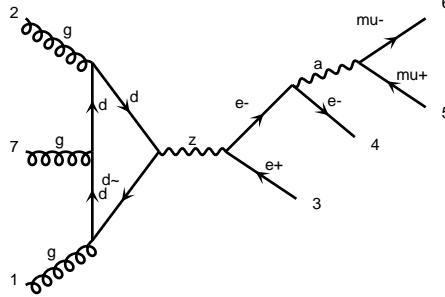


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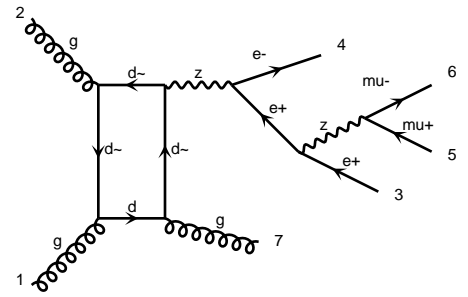


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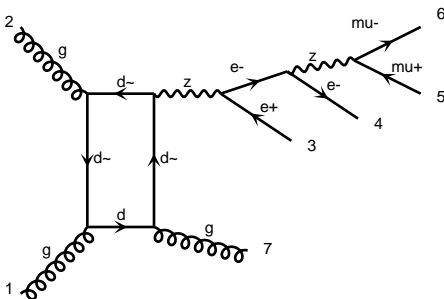


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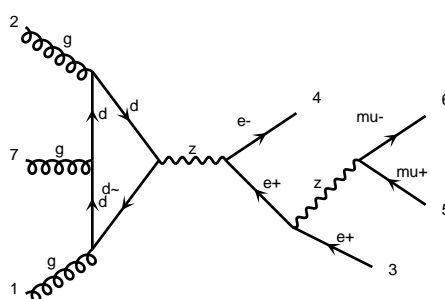


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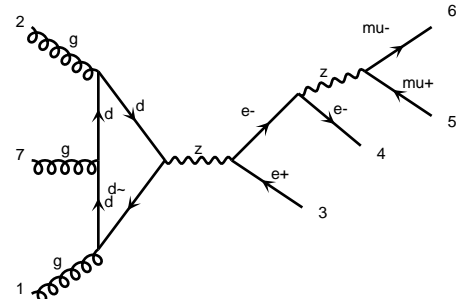


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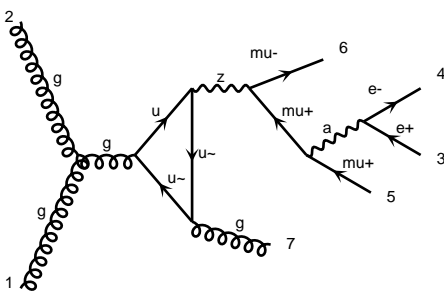


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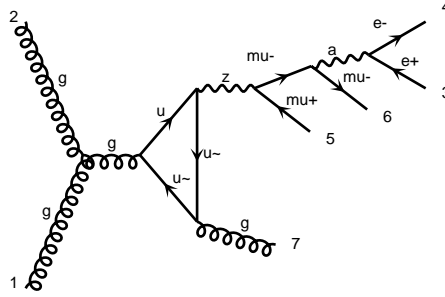


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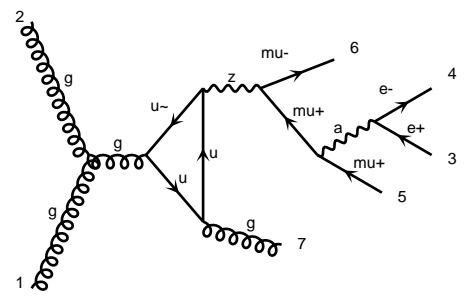


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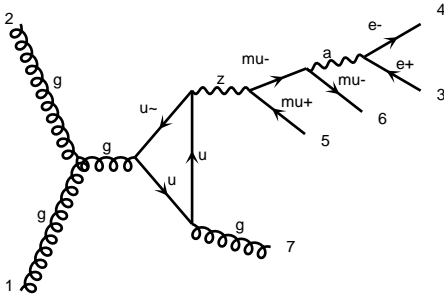


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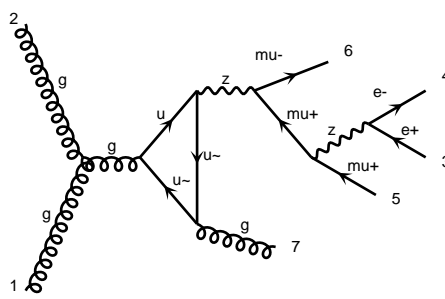


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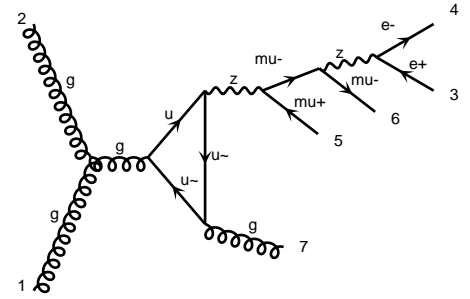


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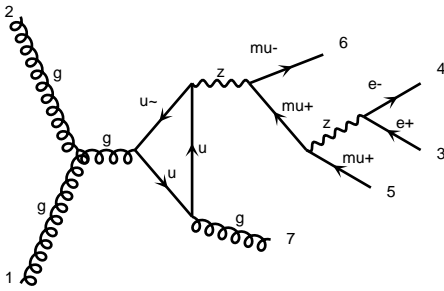


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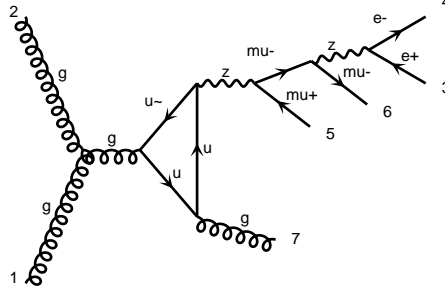


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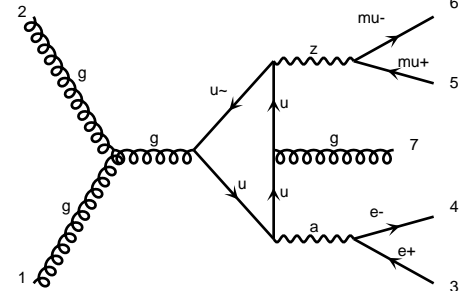


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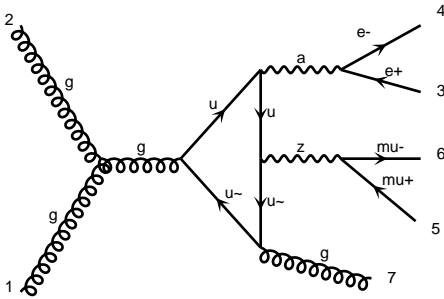


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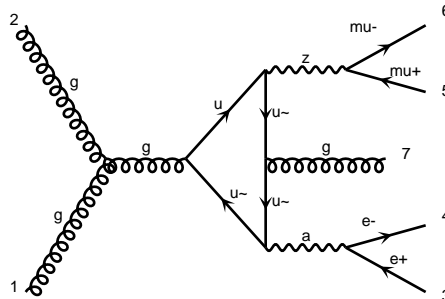


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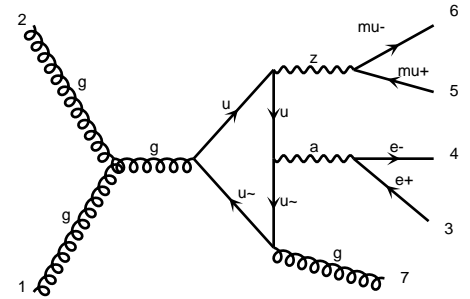


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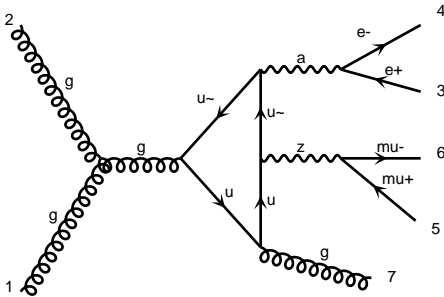


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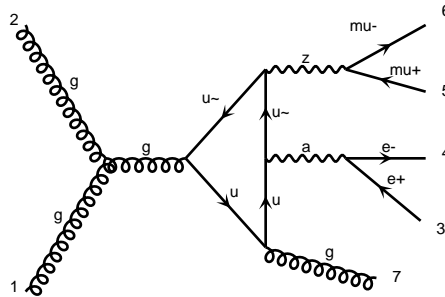


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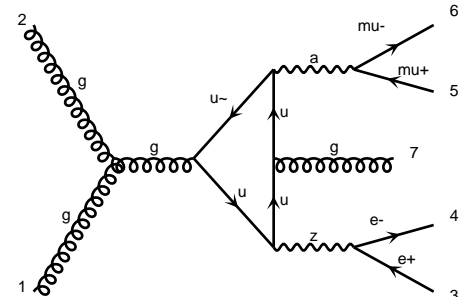


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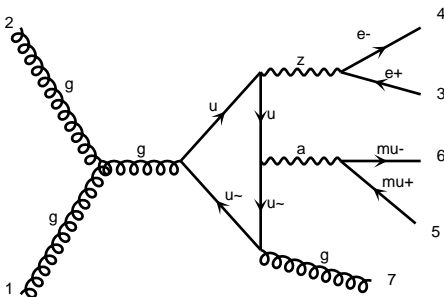


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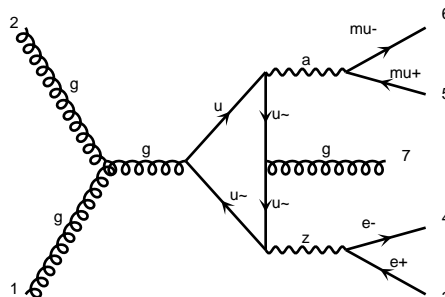


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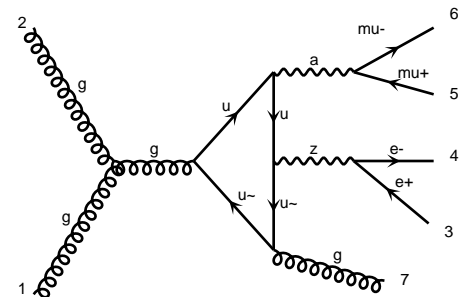


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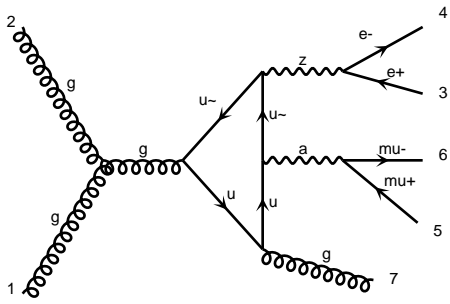


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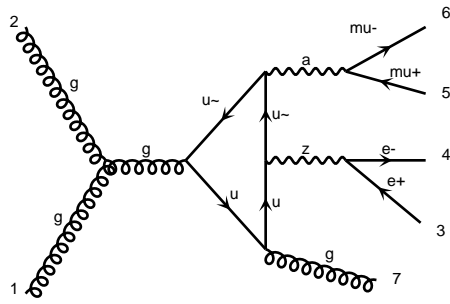


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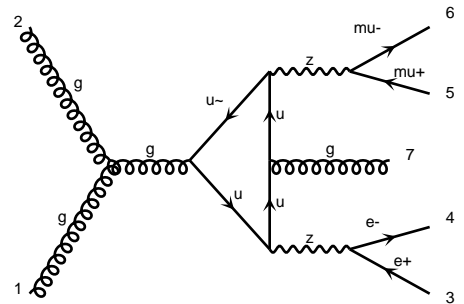


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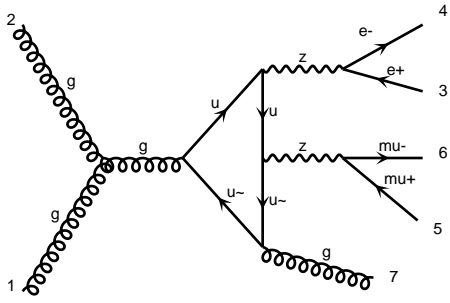


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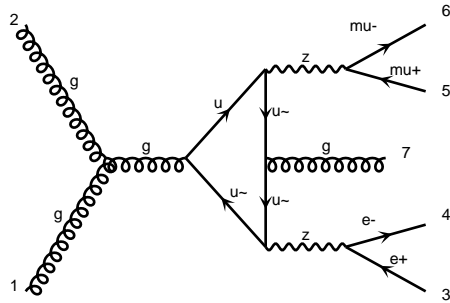


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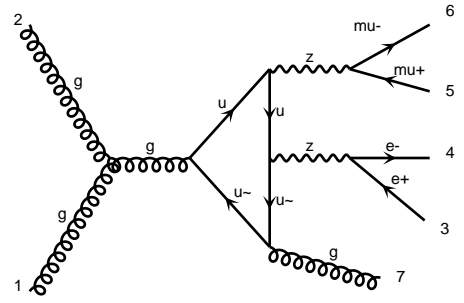


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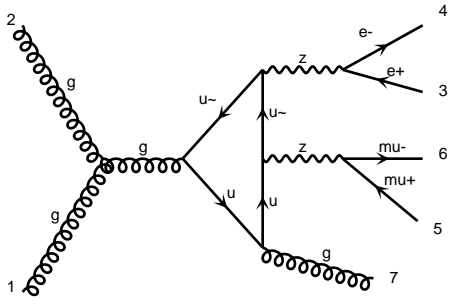


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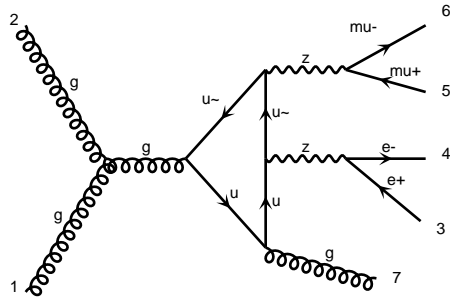


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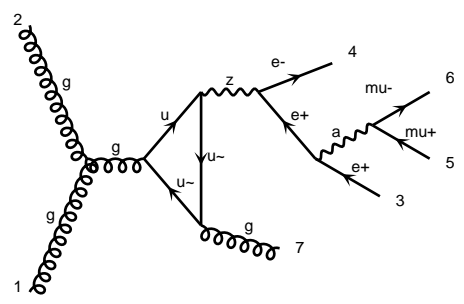


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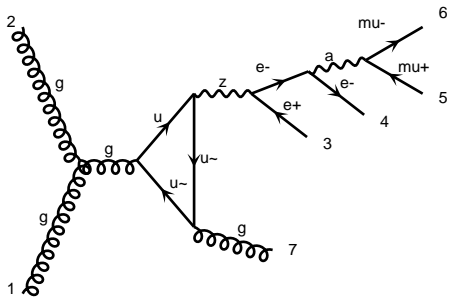


diagram 250 QCD=3, QED=4

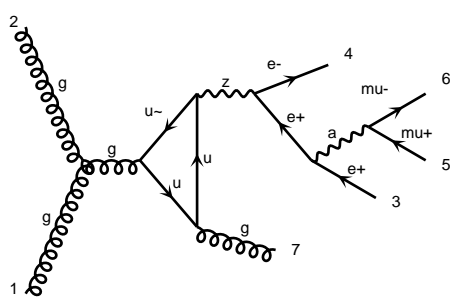


diagram 251 QCD=3, QED=4

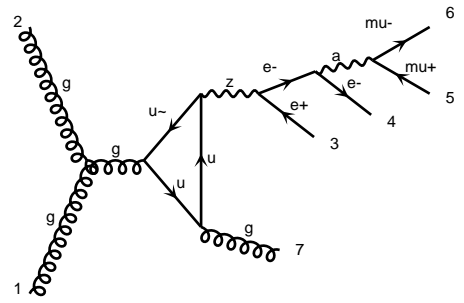


diagram 252 QCD=3, QED=4

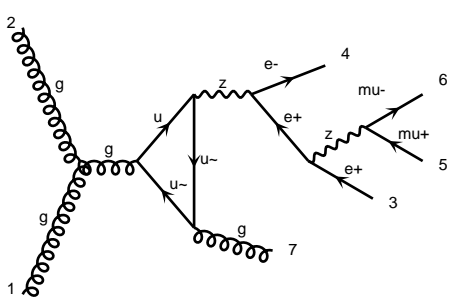


diagram 253 QCD=3, QED=4

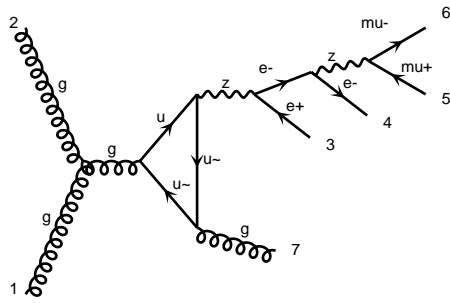


diagram 254 QCD=3, QED=4

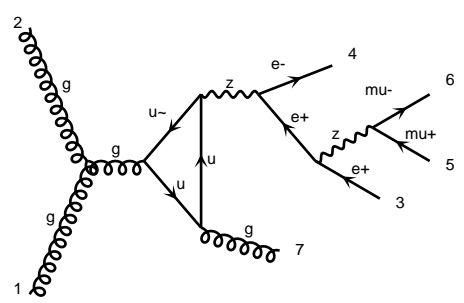


diagram 255 QCD=3, QED=4

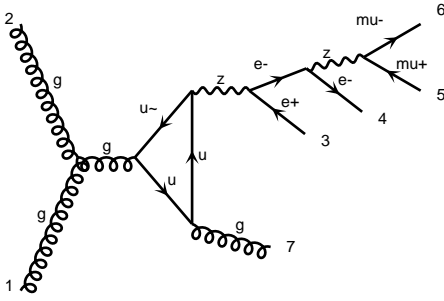


diagram 256 QCD=3, QED=4

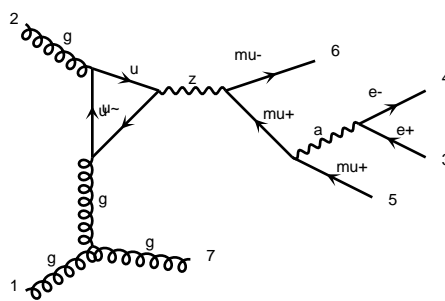


diagram 257 QCD=3, QED=4

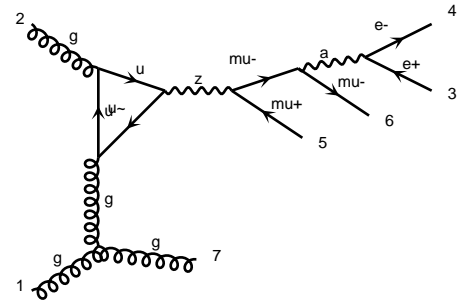


diagram 258 QCD=3, QED=4

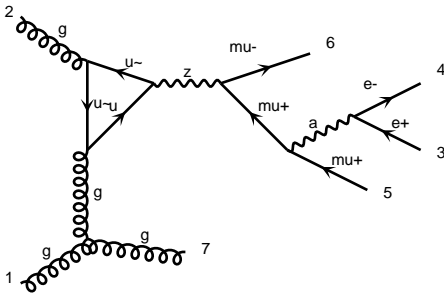


diagram 259 QCD=3, QED=4

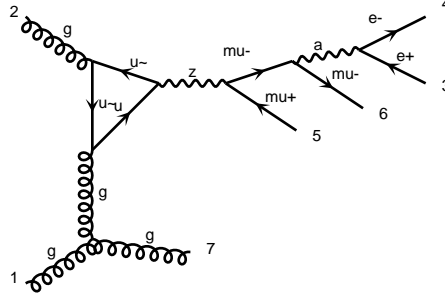


diagram 260 QCD=3, QED=4

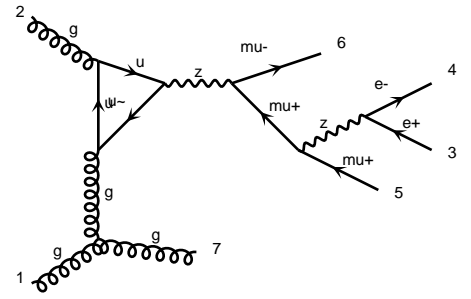


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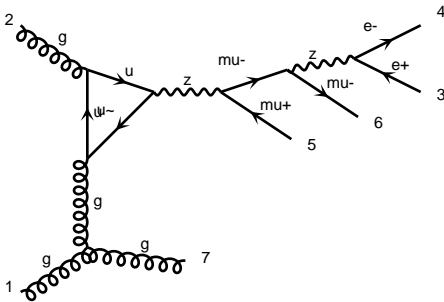


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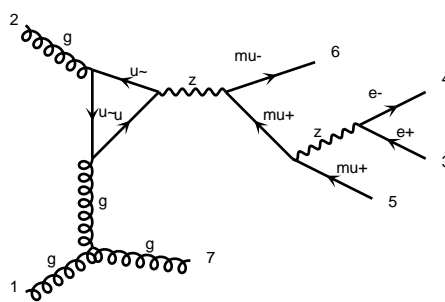


diagram 263 QCD=3, QED=4

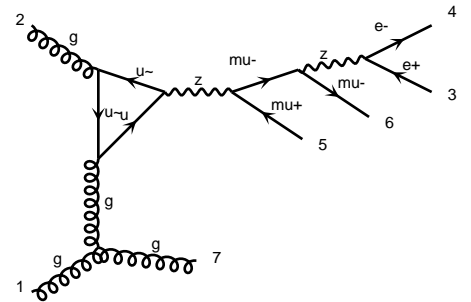


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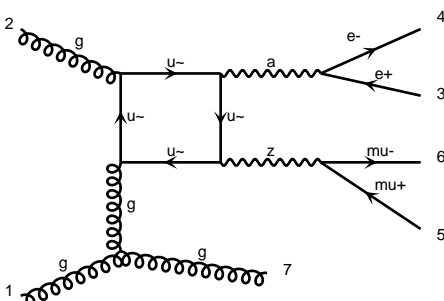


diagram 265 QCD=3, QED=4

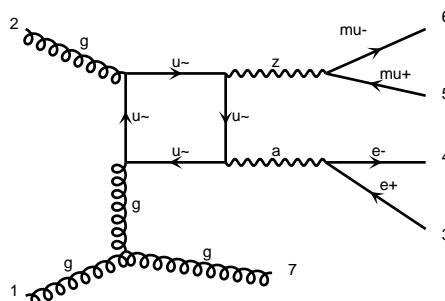


diagram 266 QCD=3, QED=4

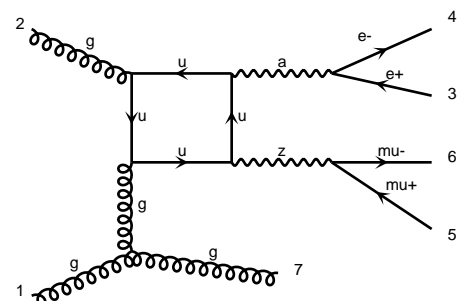


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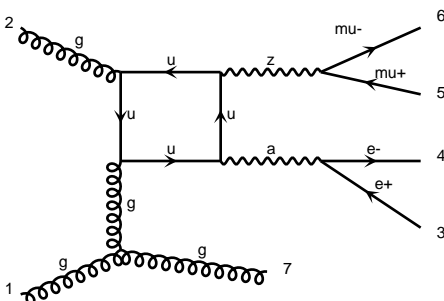


diagram 268 QCD=3, QED=4

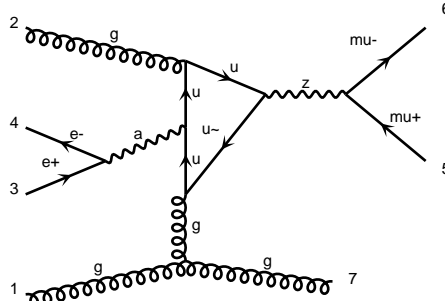


diagram 269 QCD=3, QED=4

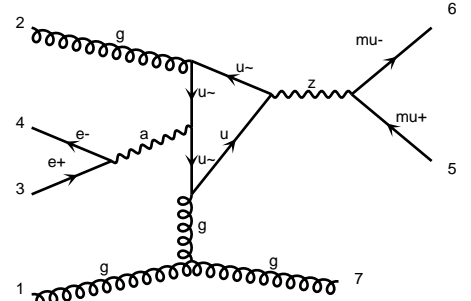


diagram 270 QCD=3, QED=4

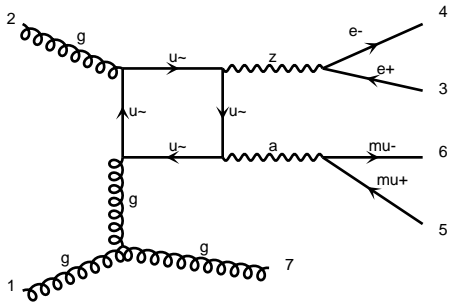


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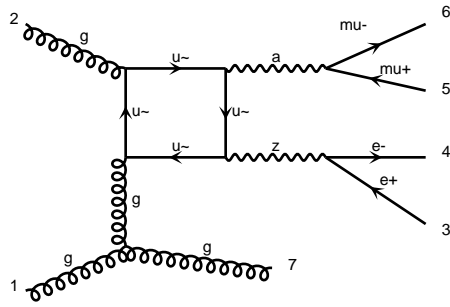


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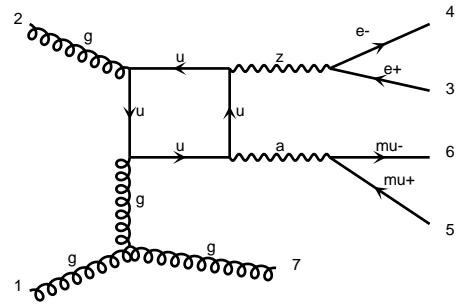


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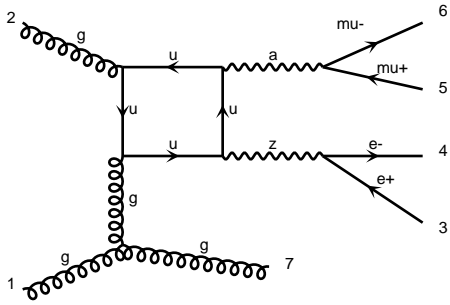


diagram 274 QCD=3, QED=4

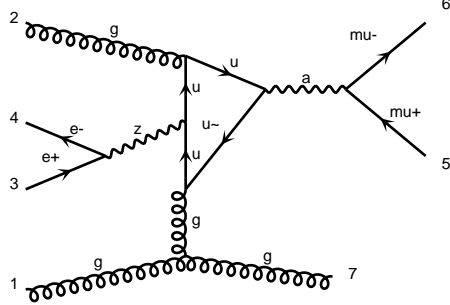


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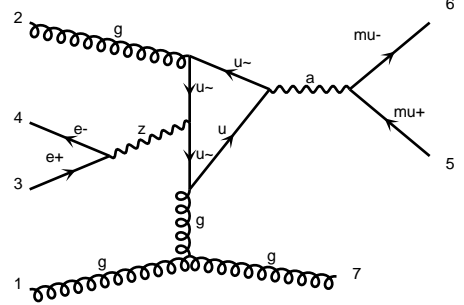


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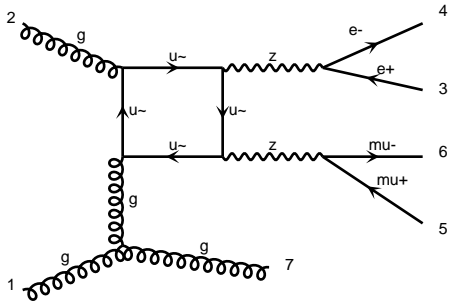


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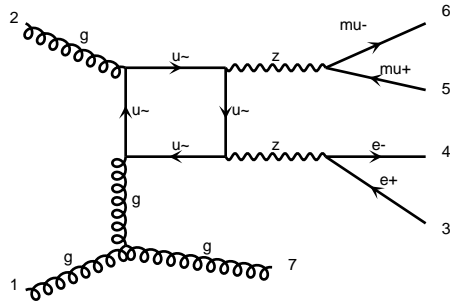


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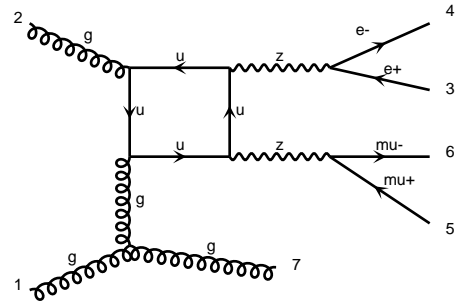


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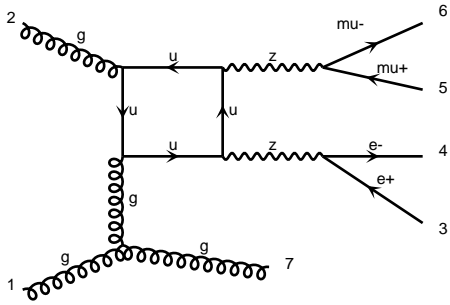


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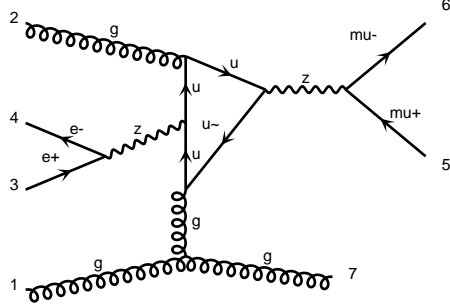


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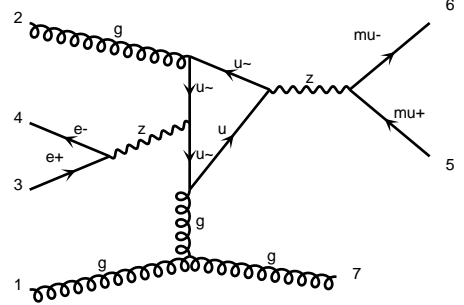


diagram 282 QCD=3, QED=4

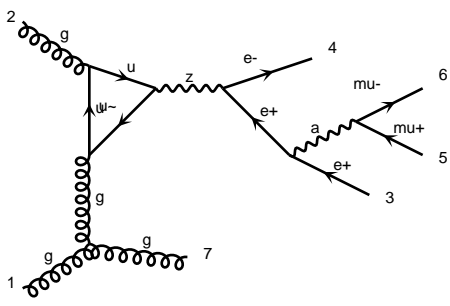


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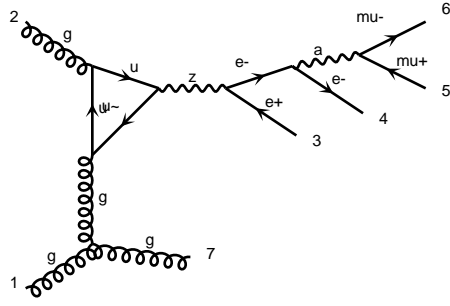


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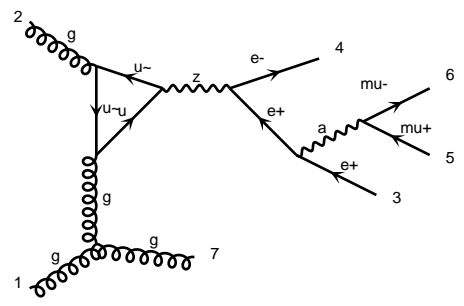


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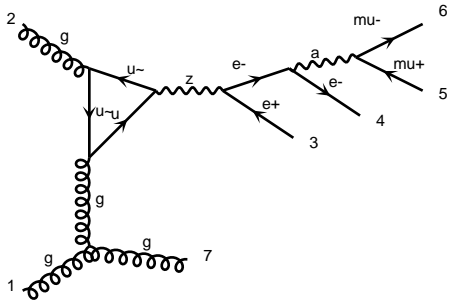


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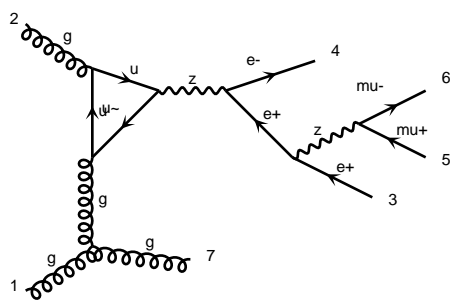


diagram 287 QCD=3, QED=4

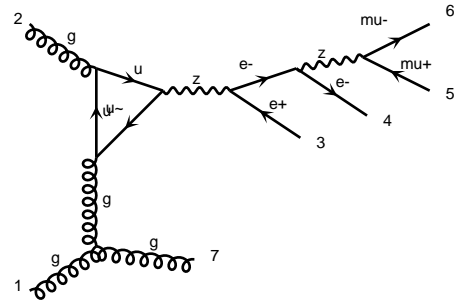


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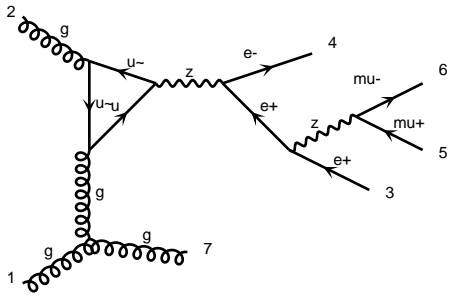


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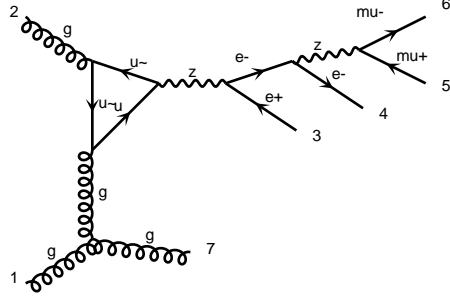


diagram 290 QCD=3, QED=4

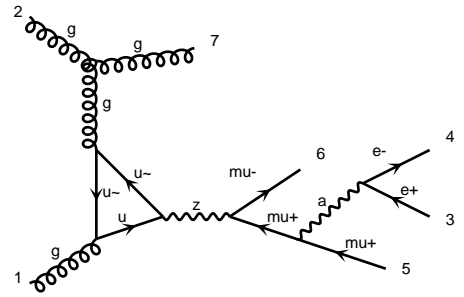


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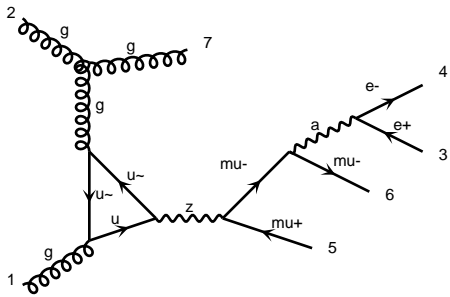


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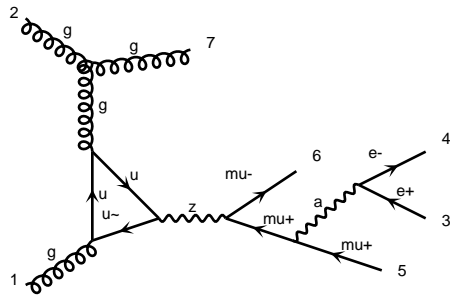


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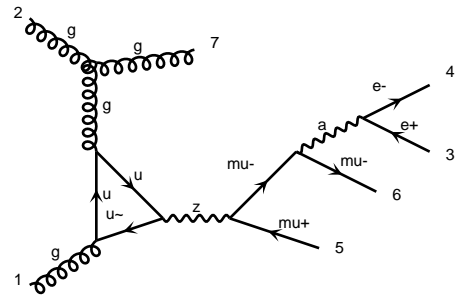


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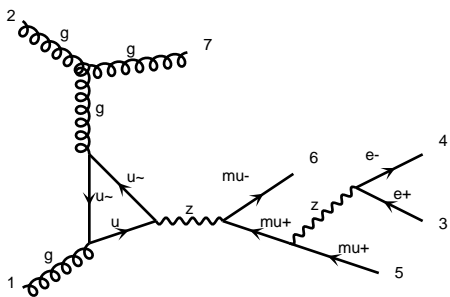


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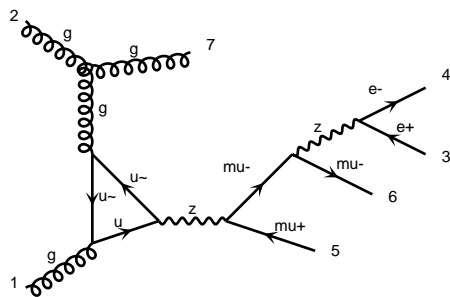


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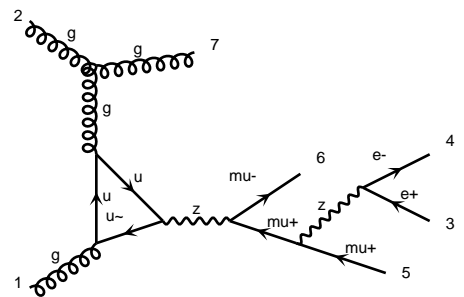


diagram 297 QCD=3, QED=4

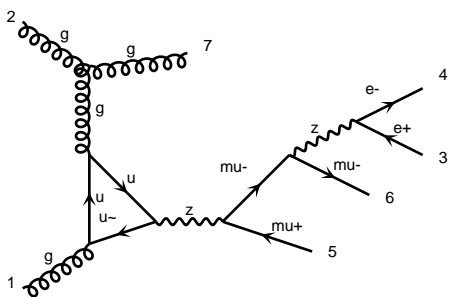


diagram 298 QCD=3, QED=4

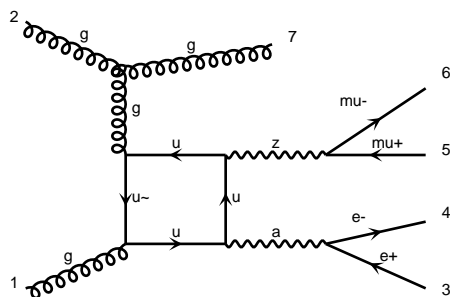


diagram 299 QCD=3, QED=4

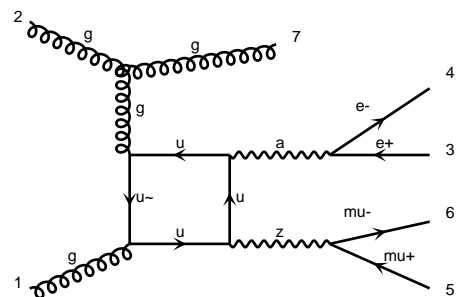


diagram 300 QCD=3, QED=4

The diagram shows a triangular loop of top quarks (t) and anti-top quarks (\bar{t}). The incoming lines at the top are two gluons (g), labeled 2 and 7. The incoming lines at the bottom are an electron (e^- , labeled 4) and a positron (e^+ , labeled 3). The electron and positron lines meet at a vertex labeled a , which is a photon. The photon line connects to the top quark loop. The top quark loop consists of a top quark line (t , labeled 1) and an anti-top quark line (\bar{t} , labeled 6). The top quark line emits a gluon (g , labeled 5) and a Z boson (z , labeled 8). The anti-top quark line emits a gluon (g , labeled 7) and a Z boson (z , labeled 8). The Z boson line connects to a muon pair (μ^- , labeled 9) and (μ^+ , labeled 10).

The diagram shows a central square loop. The left vertical line is a fermion line with an incoming arrow from the bottom labeled u and an outgoing arrow to the top labeled u . The top horizontal line is a fermion line with an incoming arrow from the left labeled u and an outgoing arrow to the right labeled u . The right vertical line is a fermion line with an incoming arrow from the bottom labeled u and an outgoing arrow to the top labeled u . The bottom horizontal line is a fermion line with an incoming arrow from the left labeled u and an outgoing arrow to the right labeled u . Four external lines are attached to the vertices of the loop:

- Top-left vertex: A gluon line (curly) goes up and to the left, labeled g and 2 . Another gluon line (curly) goes up and to the right, labeled g and 7 .
- Bottom-left vertex: A gluon line (curly) goes down and to the left, labeled g and 1 . Another gluon line (curly) goes down and to the right, labeled g .
- Top-right vertex: A photon line (wavy) goes up and to the right, labeled z and 4 . Another photon line (wavy) goes down and to the right, labeled z and 3 . The lines are labeled e^- and e^+ respectively.
- Bottom-right vertex: A photon line (wavy) goes down and to the right, labeled a and 6 . Another photon line (wavy) goes up and to the right, labeled a and 5 . The lines are labeled μ^- and μ^+ respectively.

The diagram shows a sequence of particle interactions. At the top, a gluon (g) splits into a quark-antiquark pair (u and u-bar). This pair then interacts via a Z boson (labeled 'z') with an electron-positron pair (e- and e+). The Z boson then splits into another quark-antiquark pair (u and u-bar). This pair interacts via a gluon (g) with a muon-antimuon pair (mu- and mu+). The gluon then splits into a quark-antiquark pair (u and u-bar). Finally, the quark-antiquark pair interacts via a photon (labeled 'a') with a muon-antimuon pair (mu- and mu+).

The diagram shows a central square loop. The left vertical line is a quark line labeled 'u' with an upward arrow. The top horizontal line is a quark line labeled 'u~' with a rightward arrow. The right vertical line is a quark line labeled 'u~' with a downward arrow. The bottom horizontal line is a quark line labeled 'u~' with a leftward arrow. Four gluon lines (coiled) are attached to the corners of the loop: top-left (labeled 'g'), top-right (labeled 'g'), bottom-left (labeled 'g'), and bottom-right (labeled 'g'). External lines are attached to the right side of the loop: a photon line (wavy) labeled 'z' connects the top-right corner to a vertex where an electron (e-) and a positron (e+) are produced; a photon line (wavy) labeled 'a' connects the bottom-right corner to a vertex where a muon (mu-) and an antimuon (mu+) are produced. The external lines are numbered 1 through 7: 1 (incoming u), 2 (outgoing g), 3 (incoming e+), 4 (outgoing e-), 5 (incoming mu+), 6 (outgoing mu-), and 7 (outgoing g).

The diagram illustrates a muon pair production process. On the left, two incoming gluons (labeled 'g') with momenta 1 and 2 interact through a triangular loop of top quarks (labeled 't'). The top quark lines are labeled 't' and 't~'. The loop is connected to a central vertex from which two Z bosons (labeled 'Z') emerge. These Z bosons then decay into a muon pair (labeled 'mu-' and 'mu+') and an electron-positron pair (labeled 'e-' and 'e+'). The right side of the diagram is labeled '7'.

The diagram shows a box process. Two incoming gluons (labeled 1 and 2) interact via a box diagram of two up quarks (labeled u and \bar{u}) to produce two outgoing gluons (labeled 6 and 7). Simultaneously, the quark loop emits two Z bosons (labeled 3 and 4) which decay into a muon pair (labeled 5 and 6).

The diagram shows a process with six external lines labeled 1 through 6. Lines 1 and 2 are incoming gluons (g) from the left. Lines 3 and 4 are outgoing electrons (e-) and positrons (e+) to the right. Lines 5 and 6 are outgoing muons (mu-) and muons (mu+) to the right. The internal structure consists of a square loop with a gluon (g) on the left vertical side, a gluon (g) on the top horizontal side, and a gluon (g) on the bottom horizontal side. The right vertical side of the loop is a fermion line with an upward arrow labeled 'u' and a downward arrow labeled 'u~'. From the top vertex of the loop, a gluon (g) line goes to line 2. From the bottom vertex, a gluon (g) line goes to line 1. From the top vertex, a gluon (g) line goes to line 7, which then splits into lines 3 and 4 via a Z boson (Z). From the bottom vertex, a gluon (g) line goes to line 8, which then splits into lines 5 and 6 via a Z boson (Z).

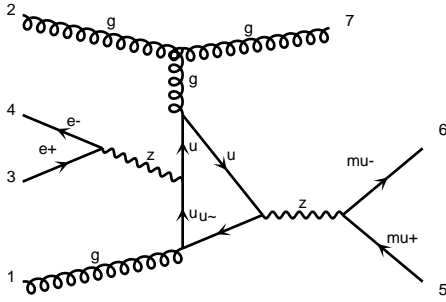


diagram 316 QCD=3, QED=4

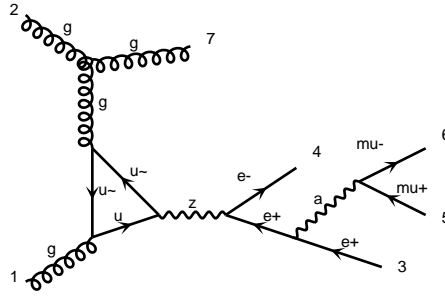


diagram 317 QCD=3, QED=4

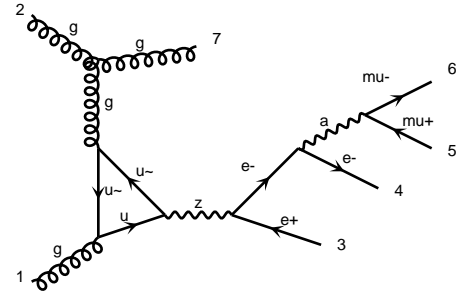


diagram 318 QCD=3, QED=4

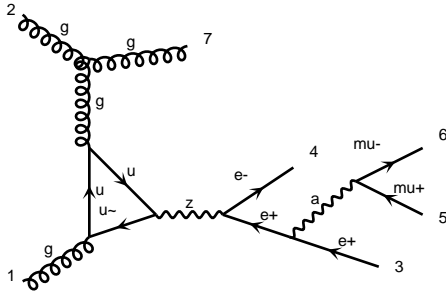


diagram 319 QCD=3, QED=4

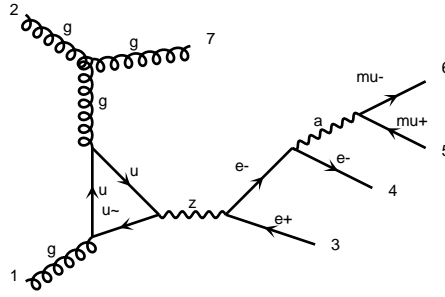


diagram 320 QCD=3, QED=4

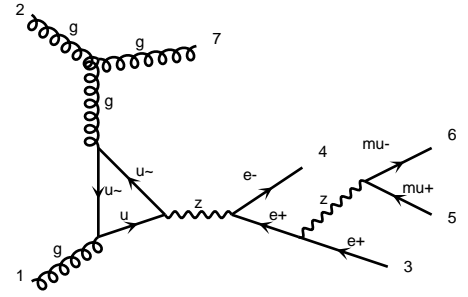


diagram 321 QCD=3, QED=4

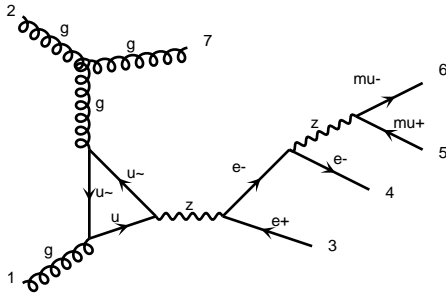


diagram 322 QCD=3, QED=4

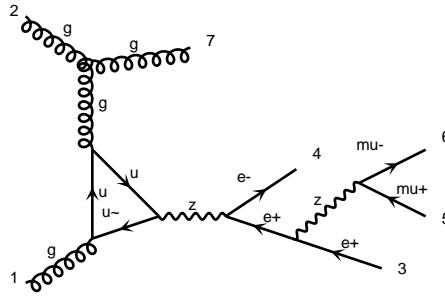


diagram 323 QCD=3, QED=4

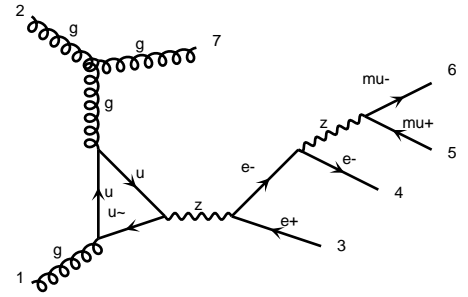


diagram 324 QCD=3, QED=4

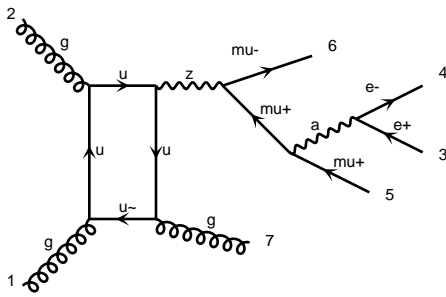


diagram 325 QCD=3, QED=4

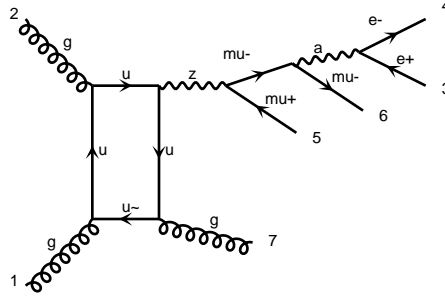


diagram 326 QCD=3, QED=4

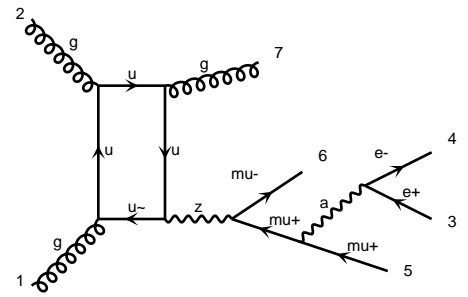


diagram 327 QCD=3, QED=4

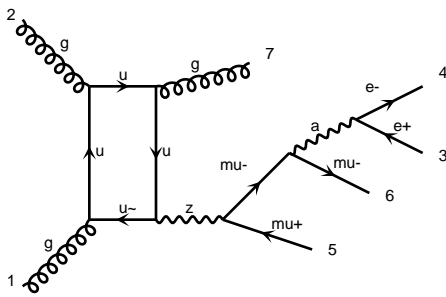


diagram 328 QCD=3, QED=4

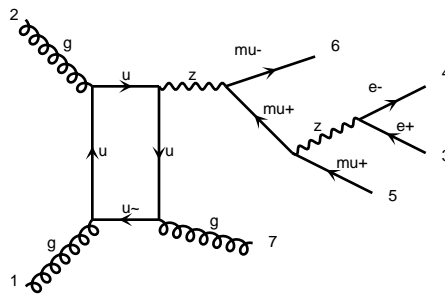


diagram 329 QCD=3, QED=4

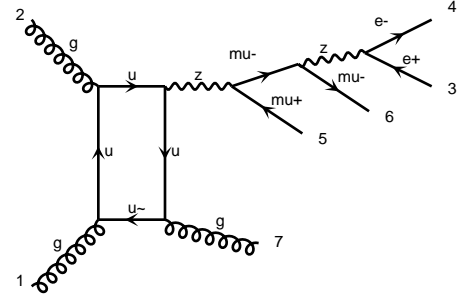


diagram 330 QCD=3, QED=4

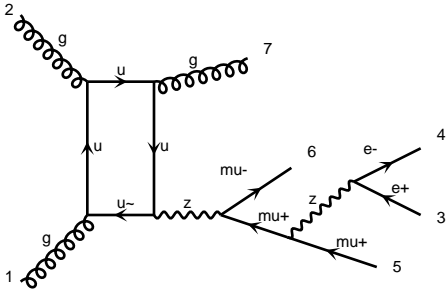


diagram 331 QCD=3, QED=4

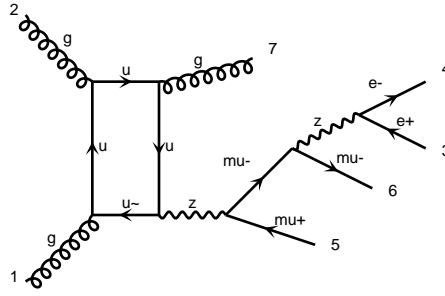


diagram 332 QCD=3, QED=4

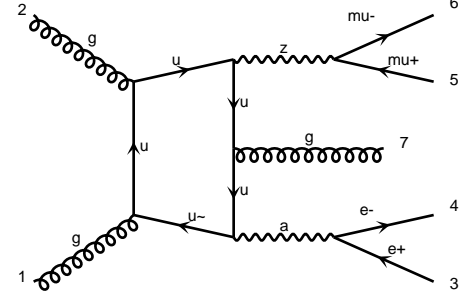


diagram 333 QCD=3, QED=4

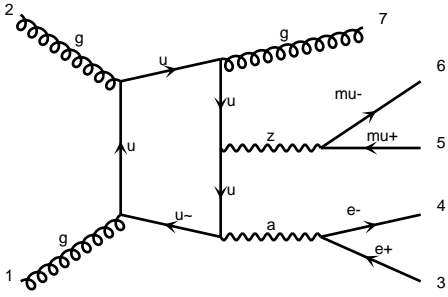


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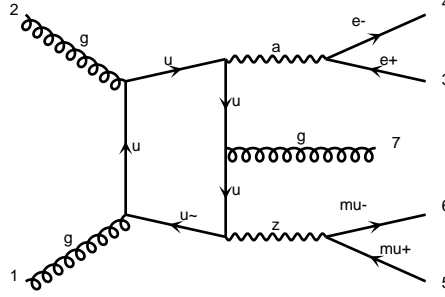


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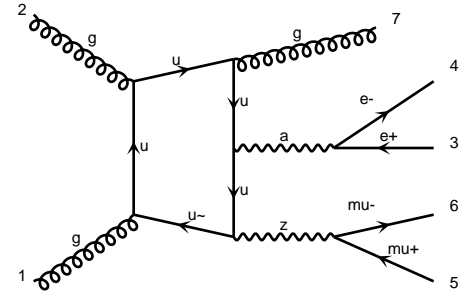


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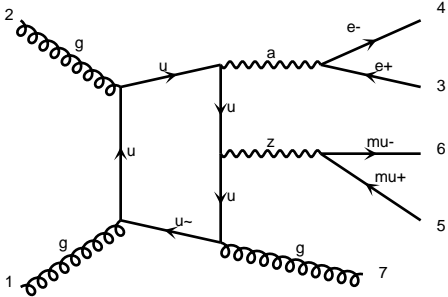


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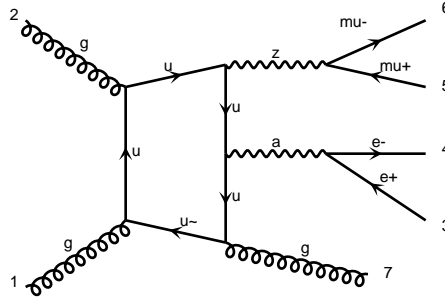


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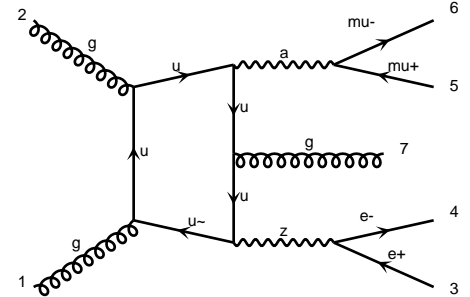


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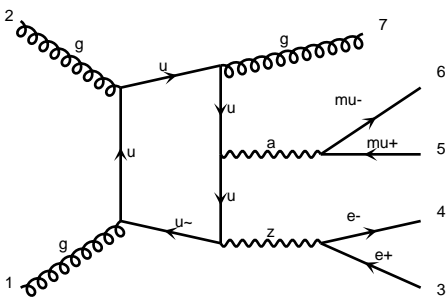


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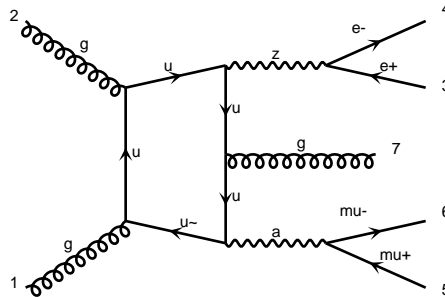


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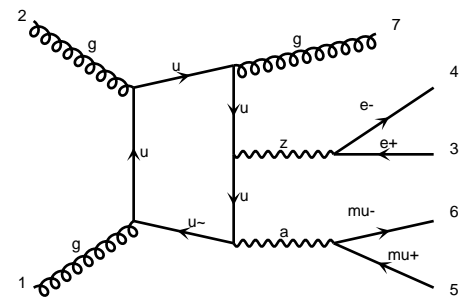


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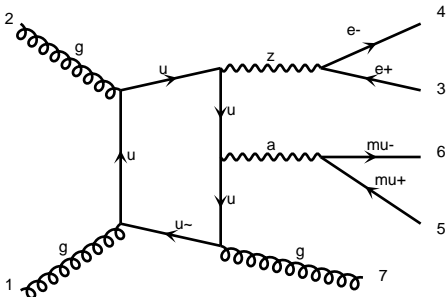


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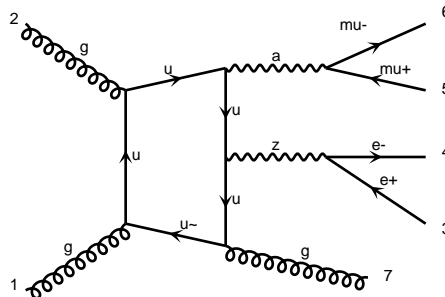


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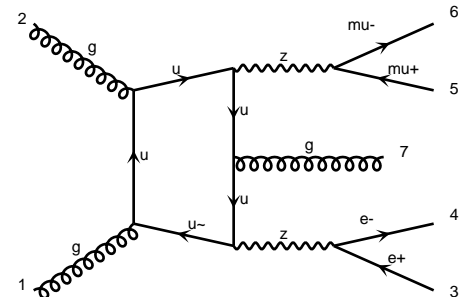


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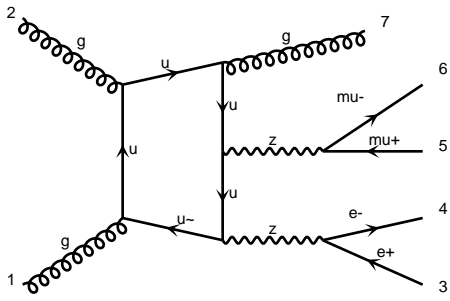


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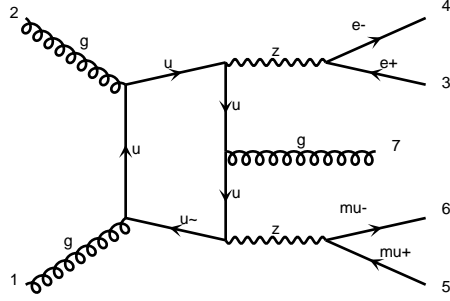


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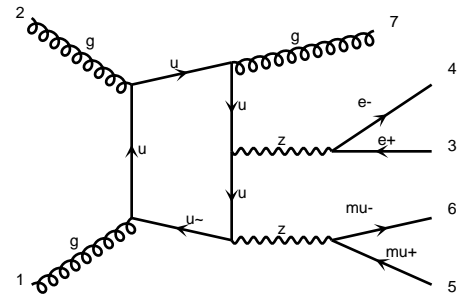


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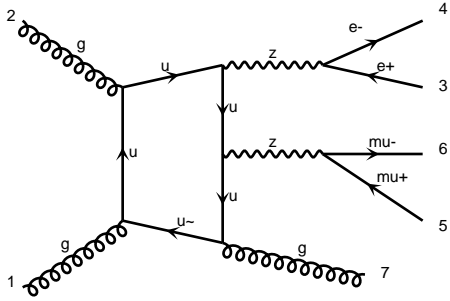


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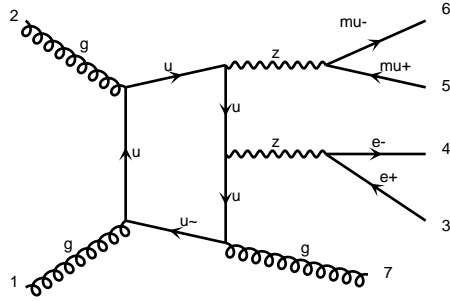


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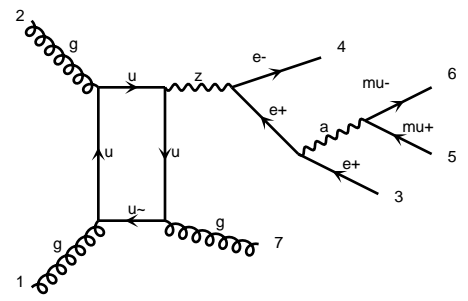


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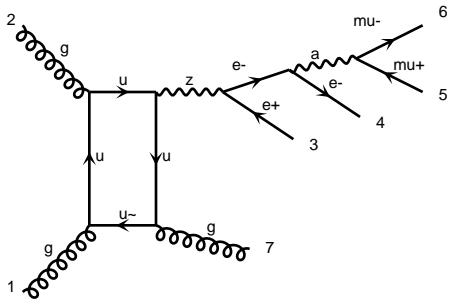


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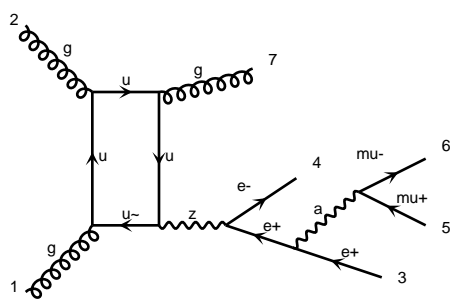


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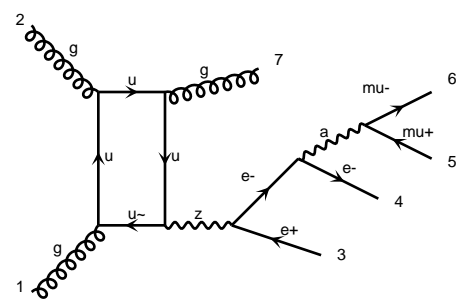


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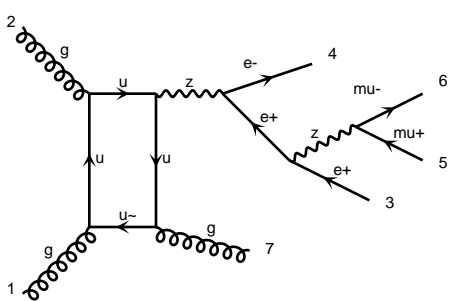


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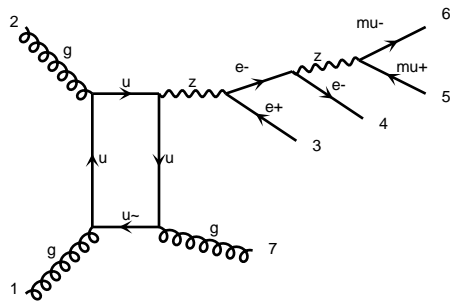


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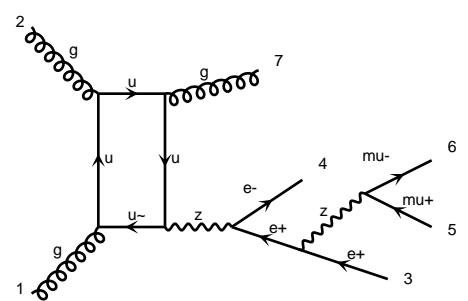


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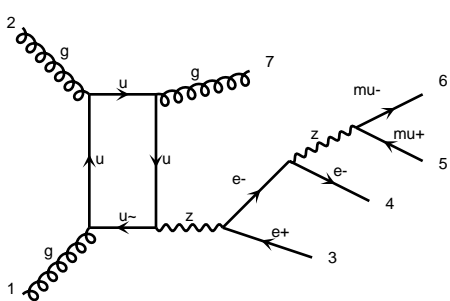


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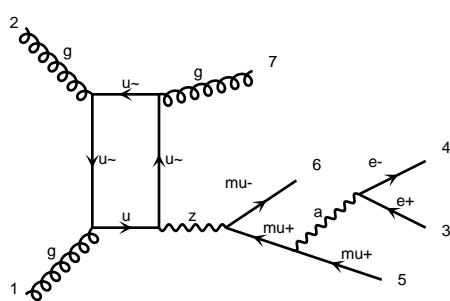


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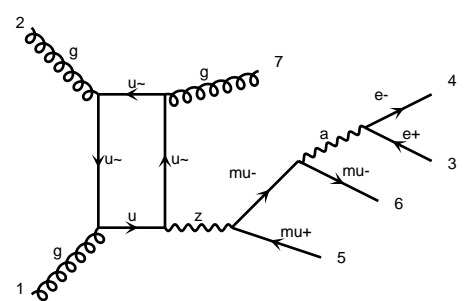


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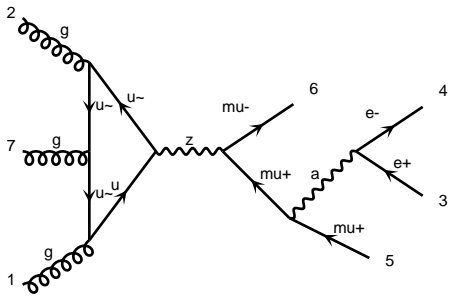


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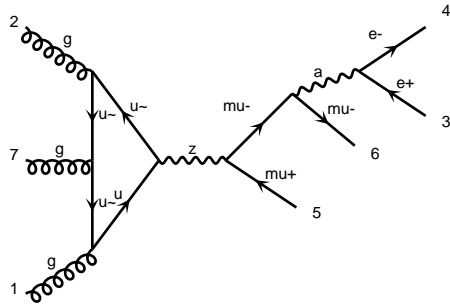


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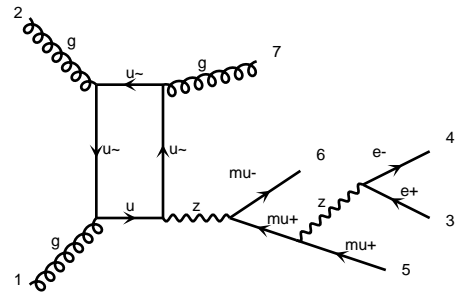


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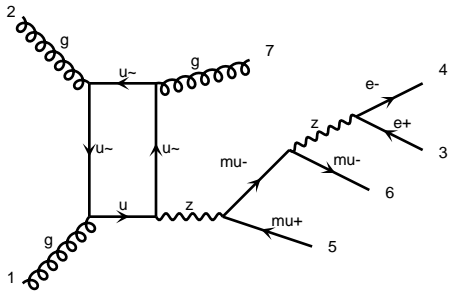


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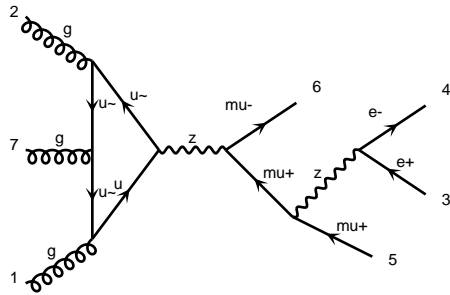


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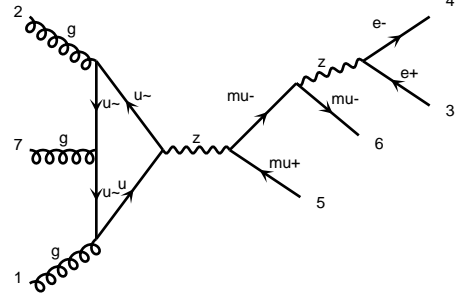


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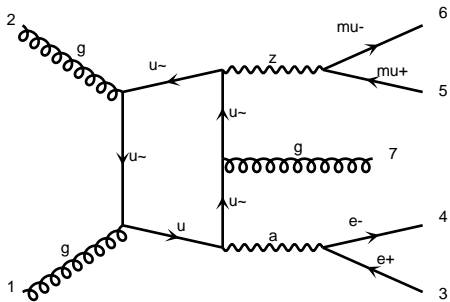


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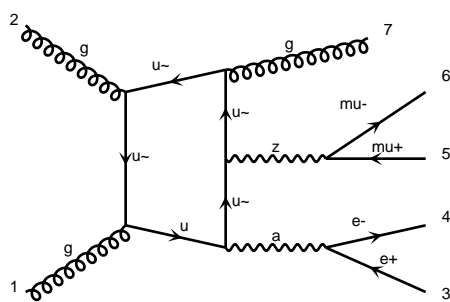


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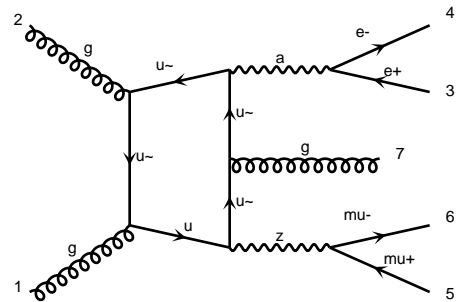


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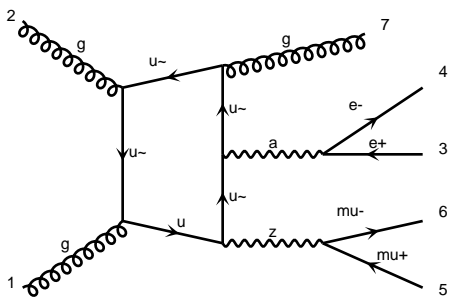


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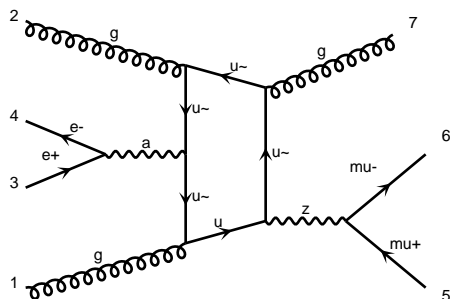


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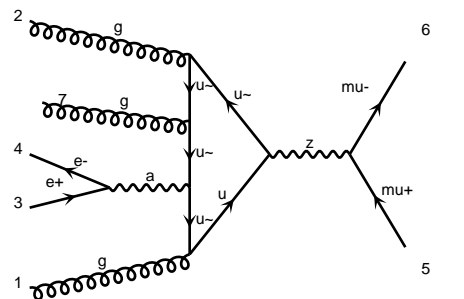


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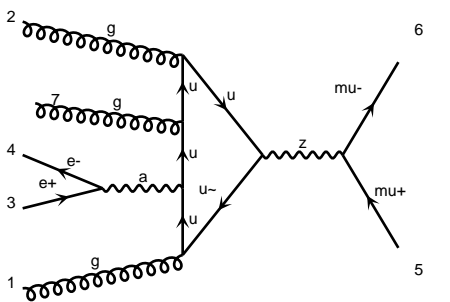


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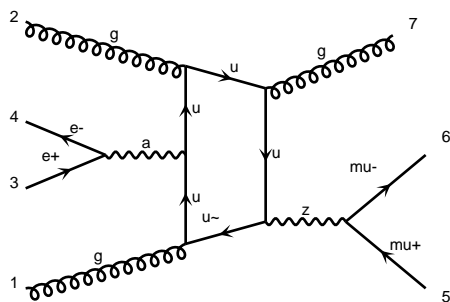


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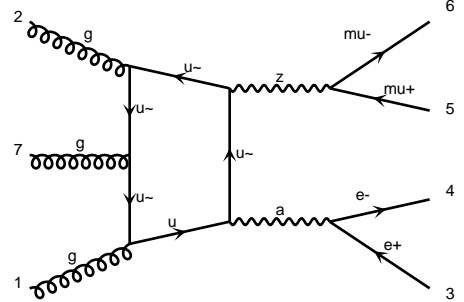


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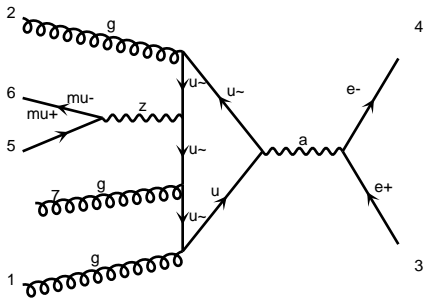


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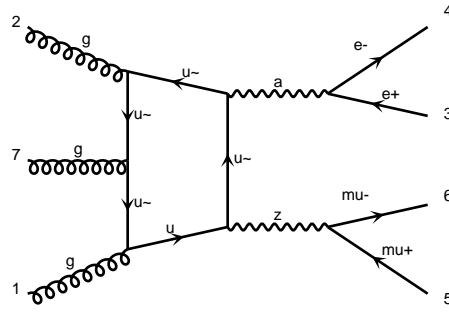


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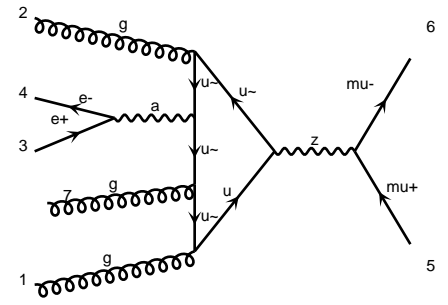


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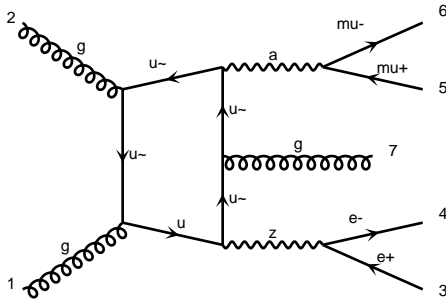


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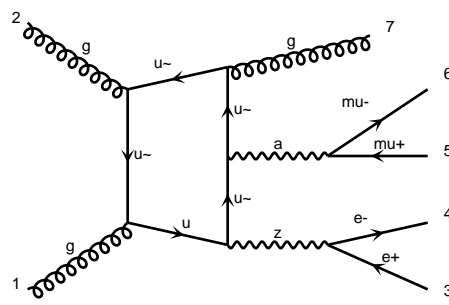


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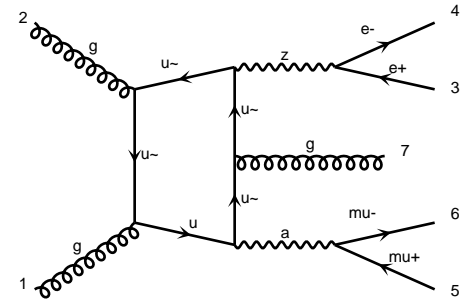


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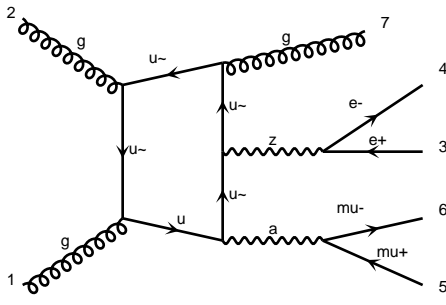


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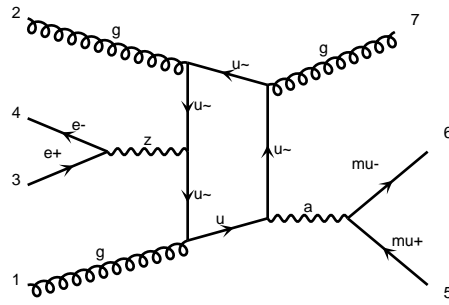


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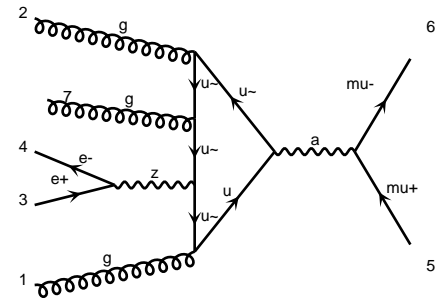


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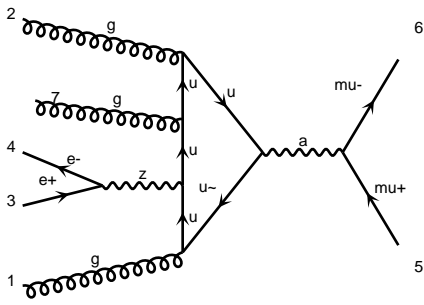


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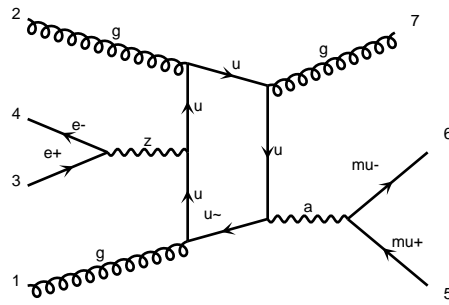


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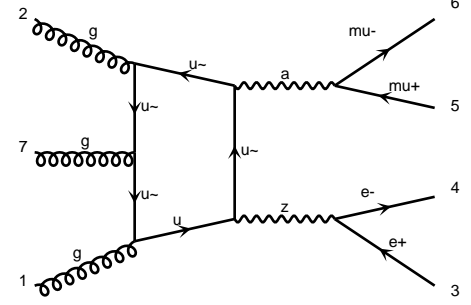


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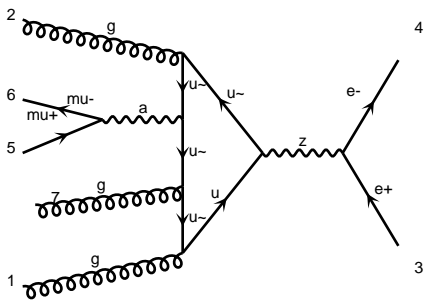


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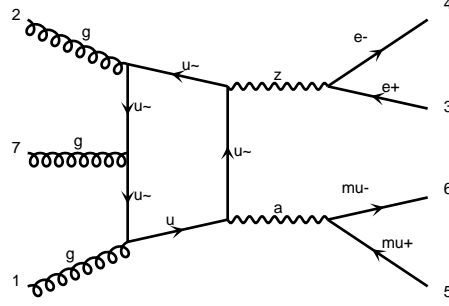


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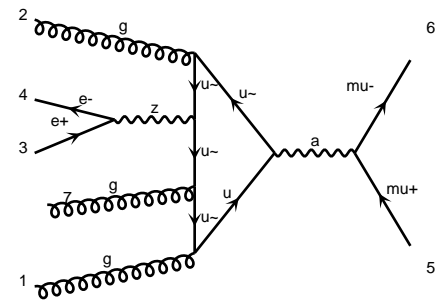


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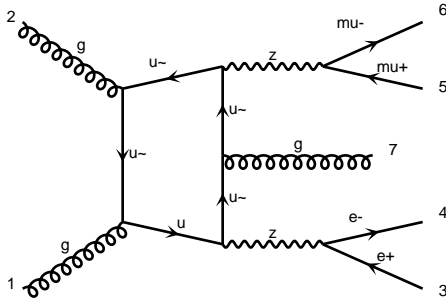


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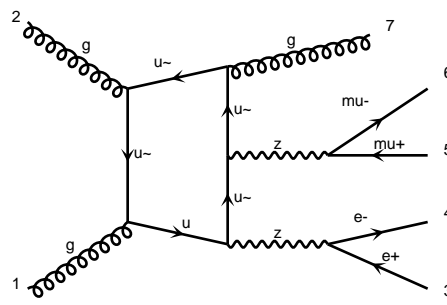


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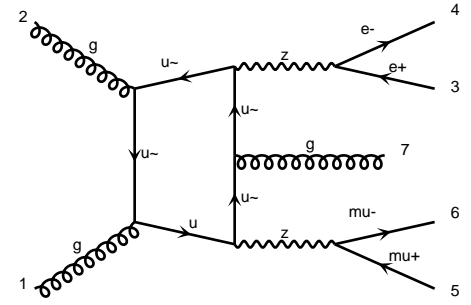


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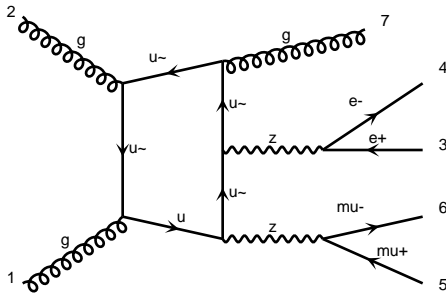


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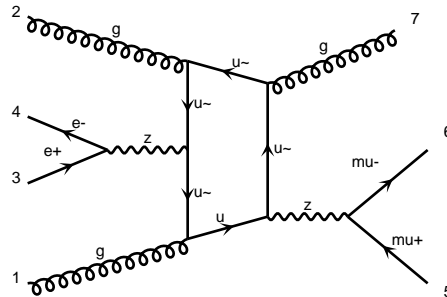


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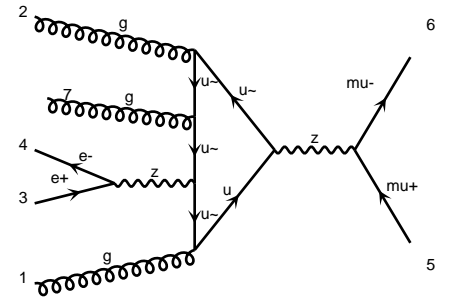


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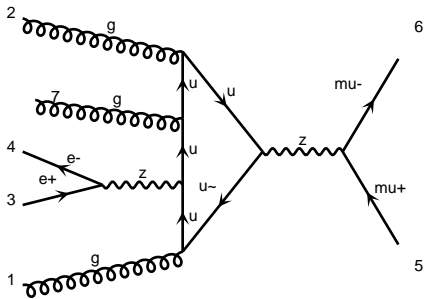


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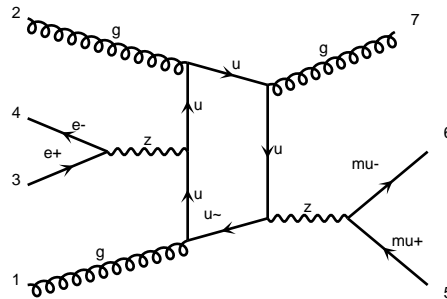


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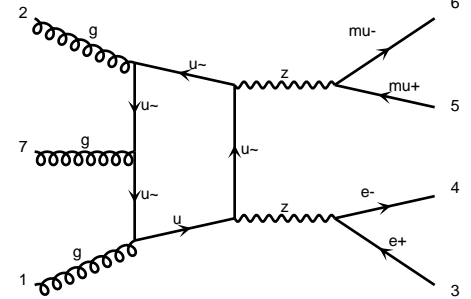


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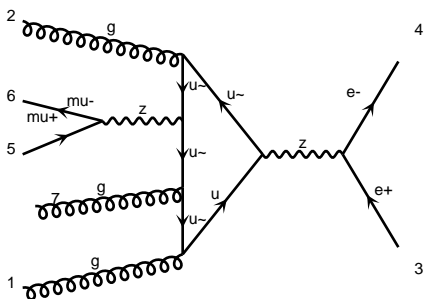


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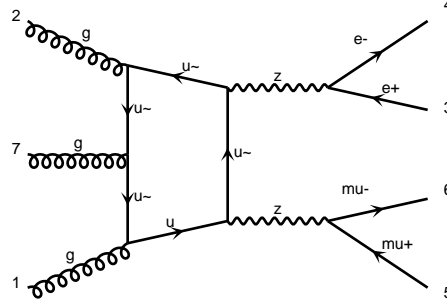


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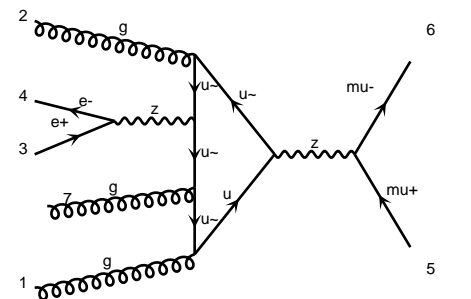


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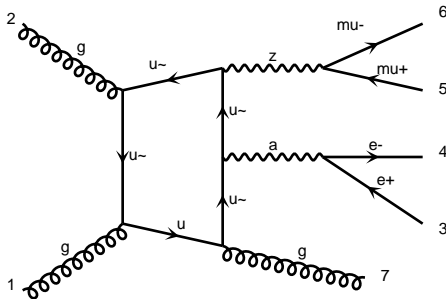


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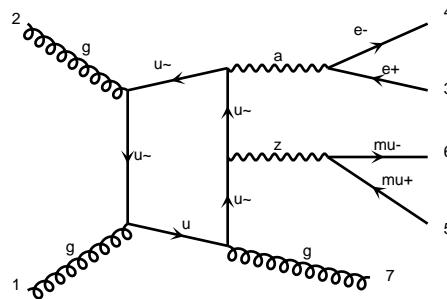


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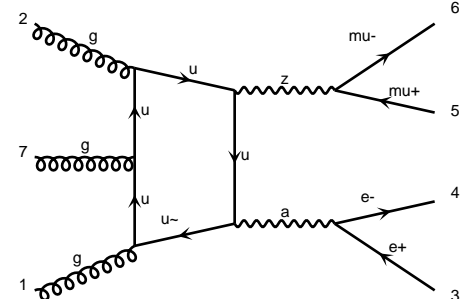


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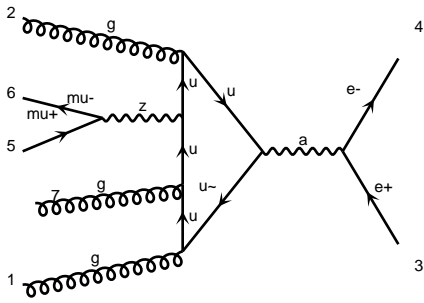


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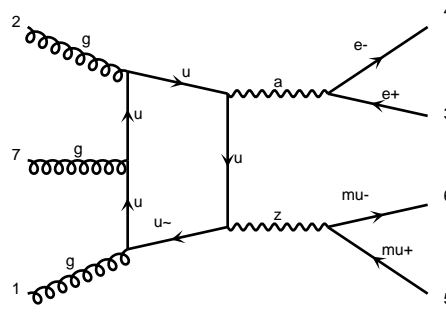


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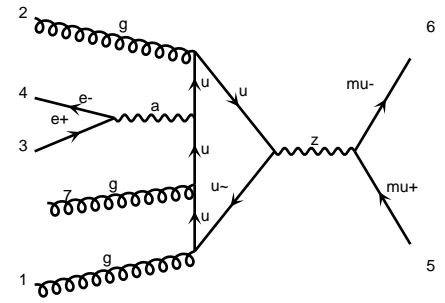


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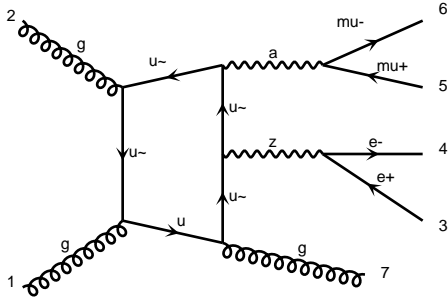


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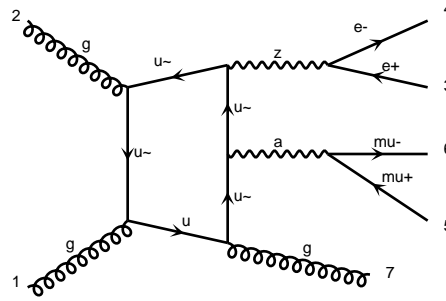


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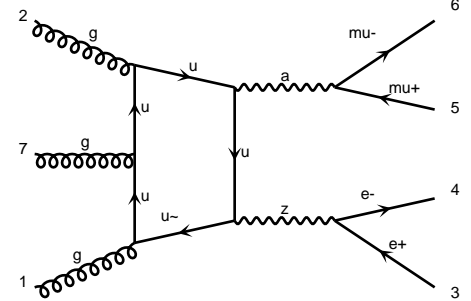


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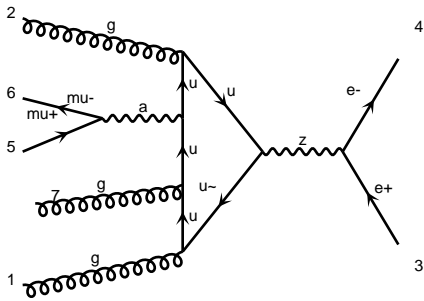


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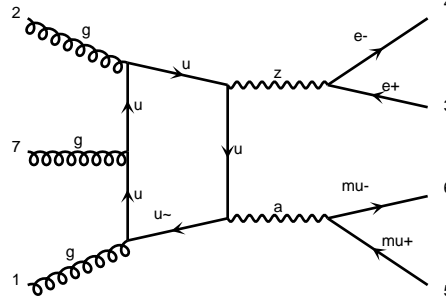


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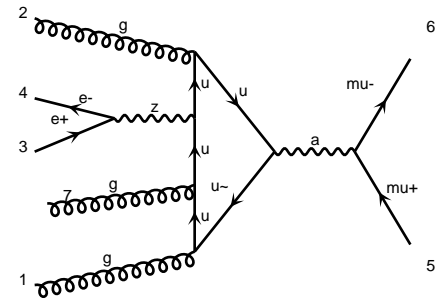


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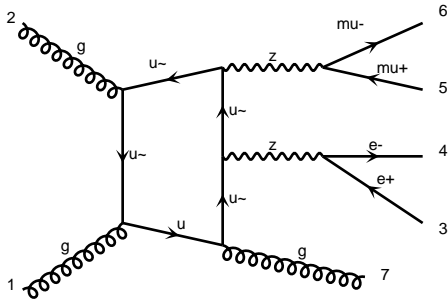


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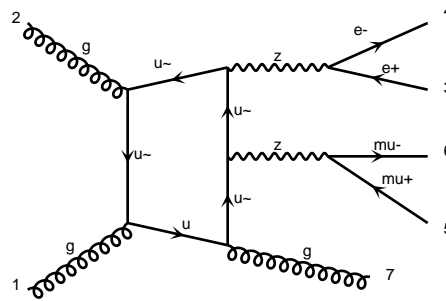


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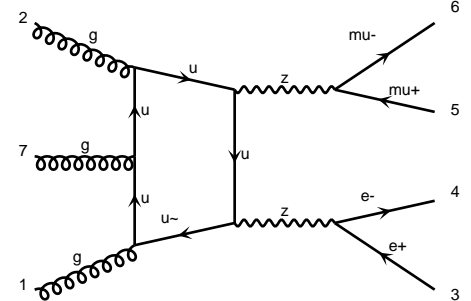


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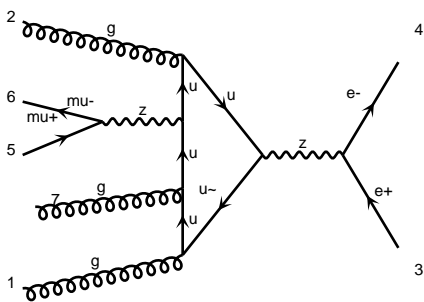


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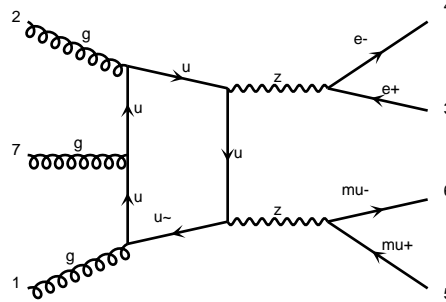


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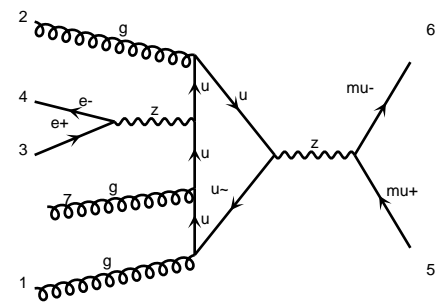


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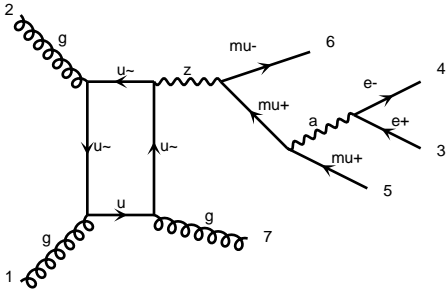


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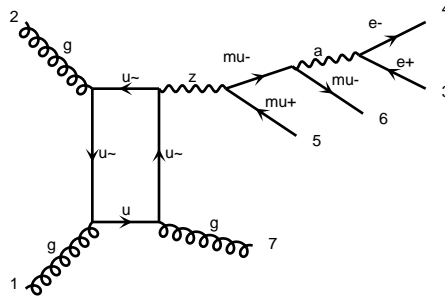


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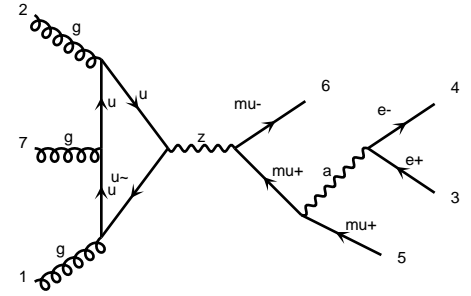


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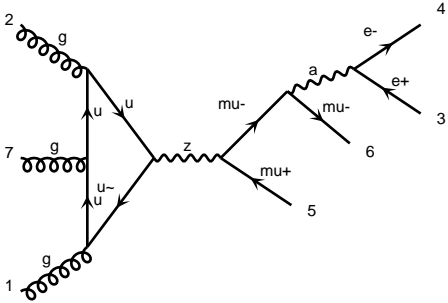


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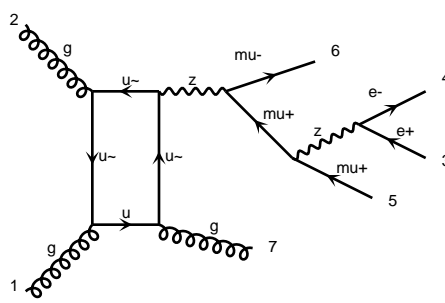


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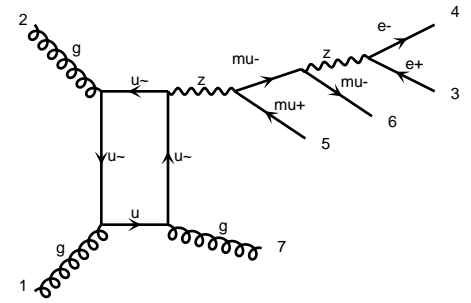


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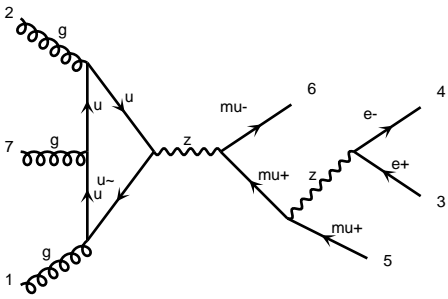


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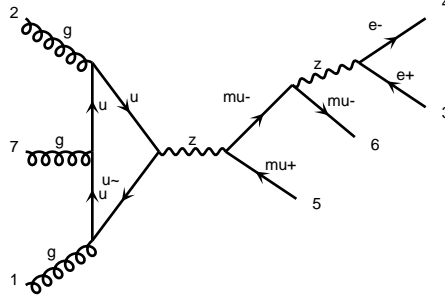


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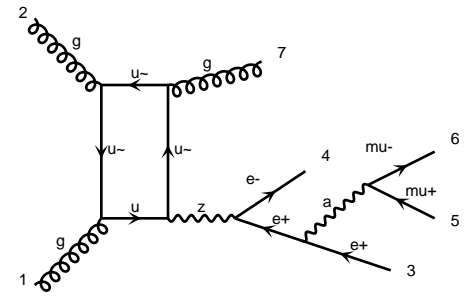


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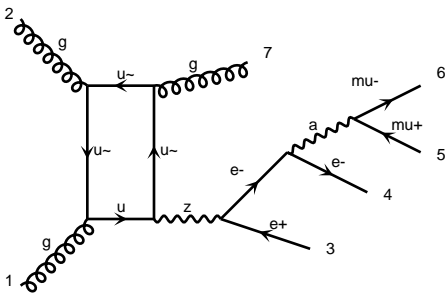


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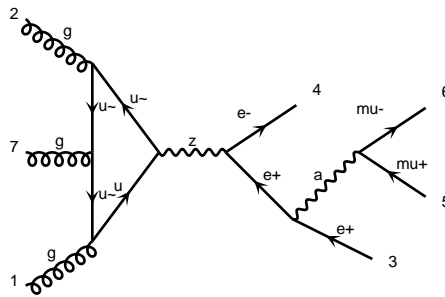


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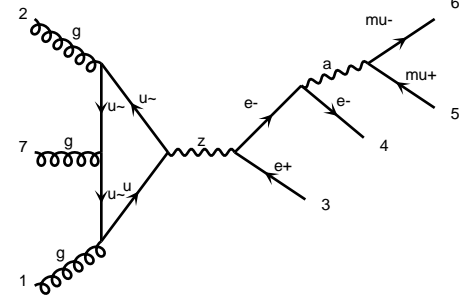


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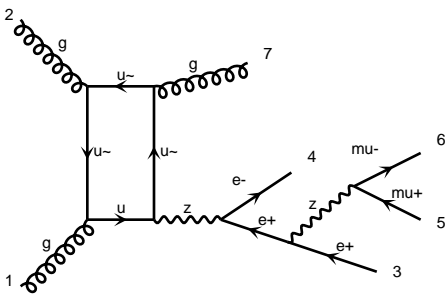


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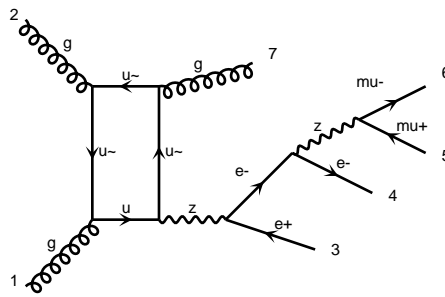


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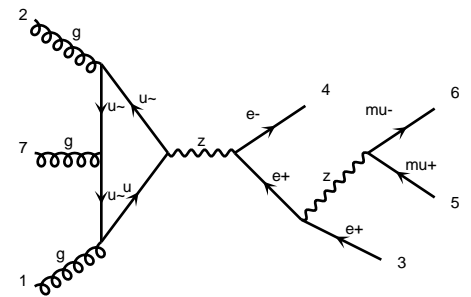


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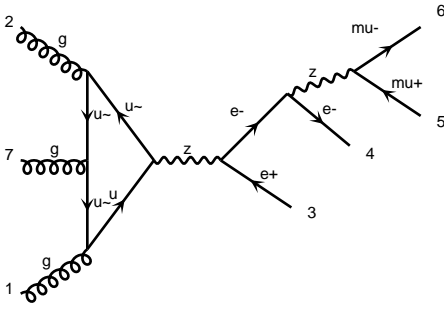


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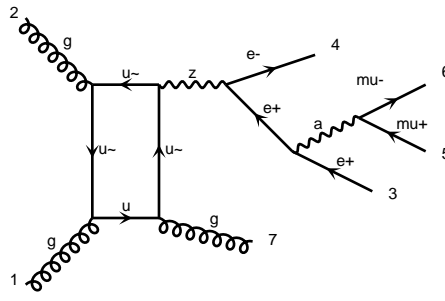


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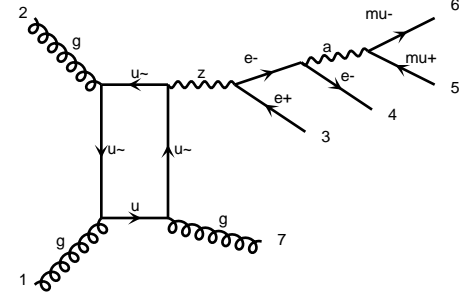


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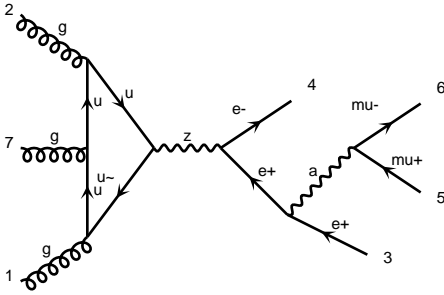


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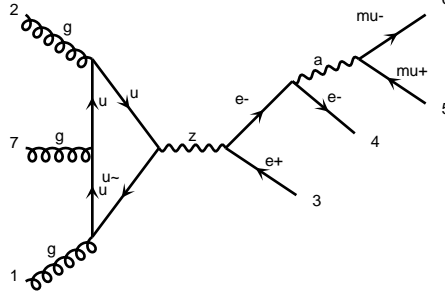


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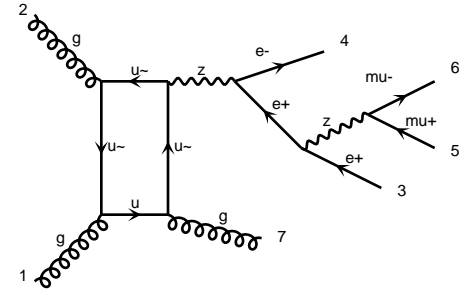


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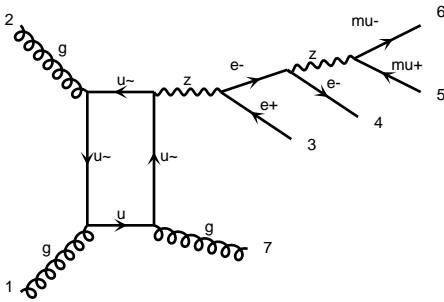


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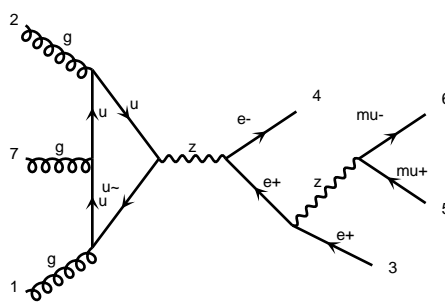


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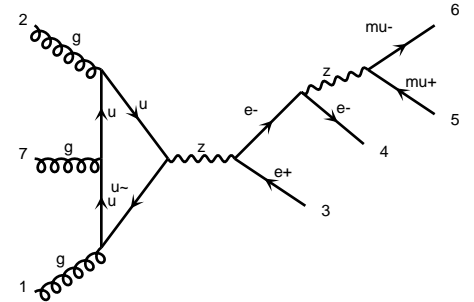


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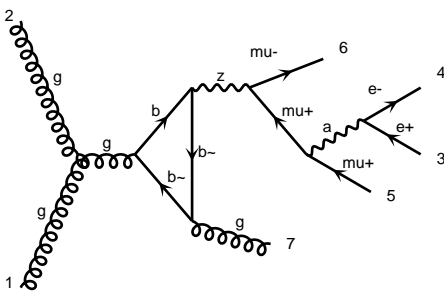


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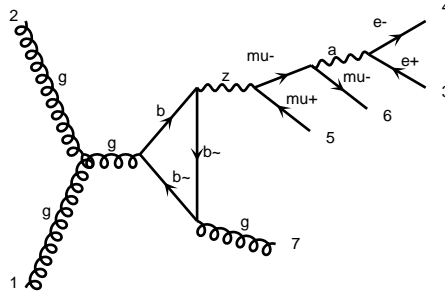


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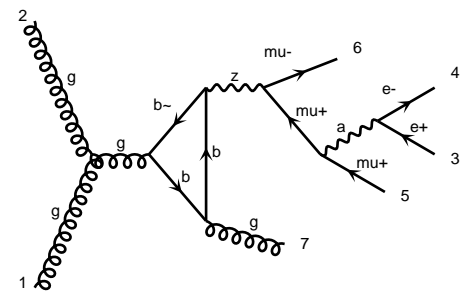


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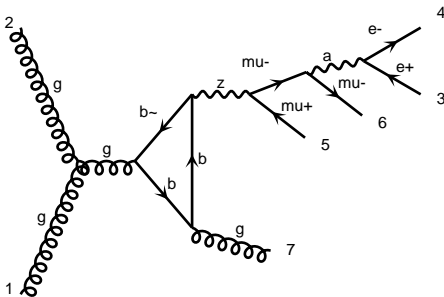


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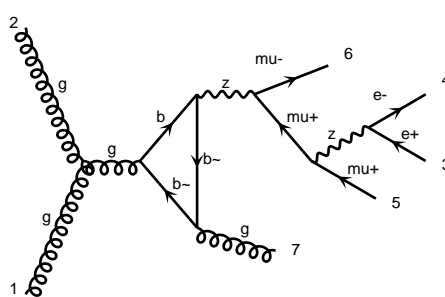


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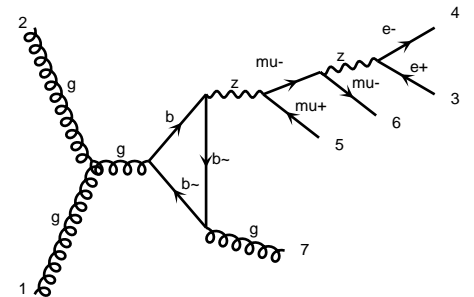


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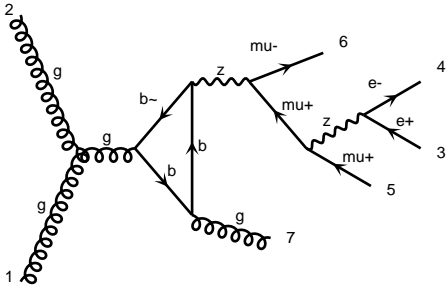


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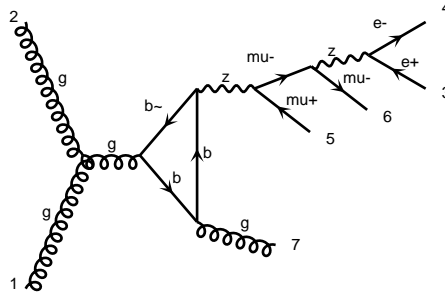


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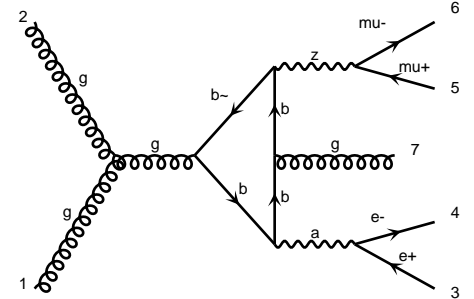


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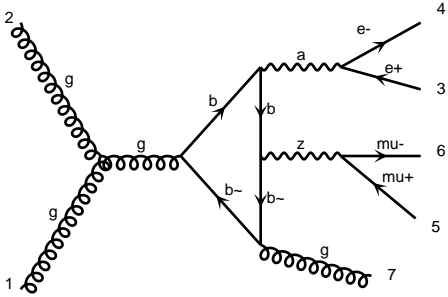


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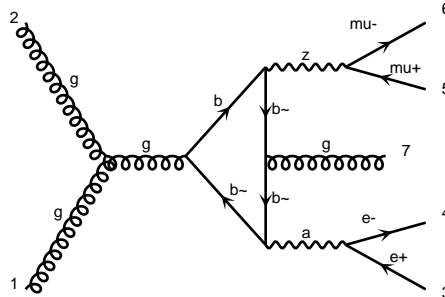


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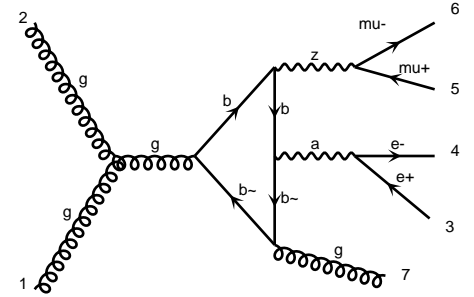


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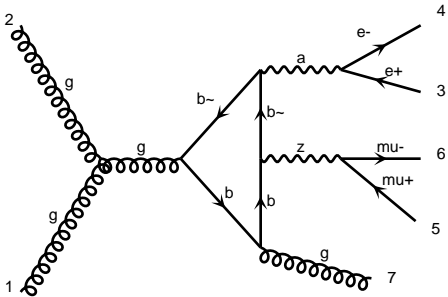


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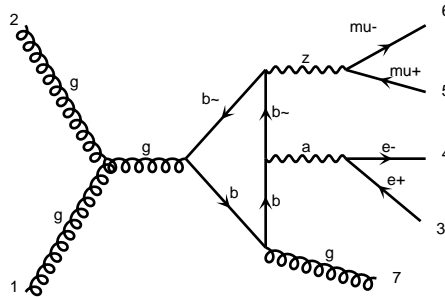


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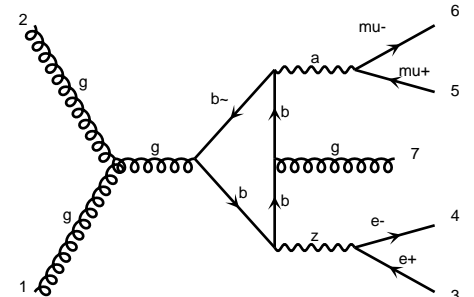


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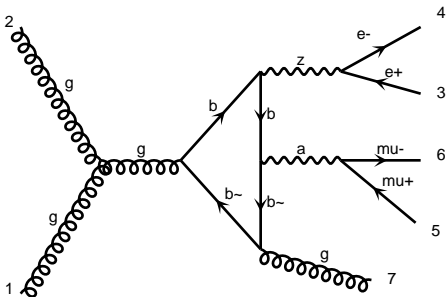


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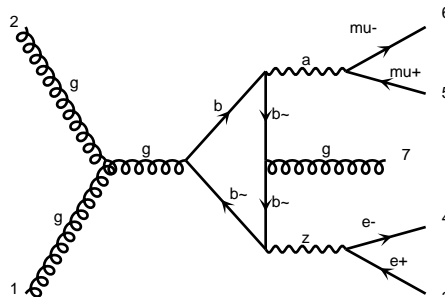


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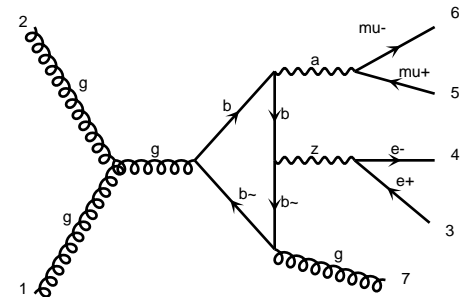


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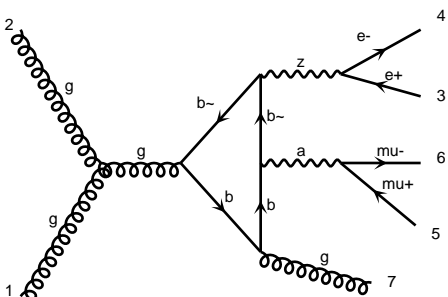


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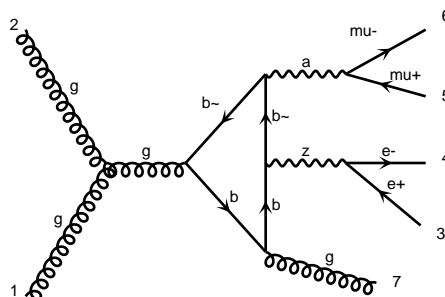


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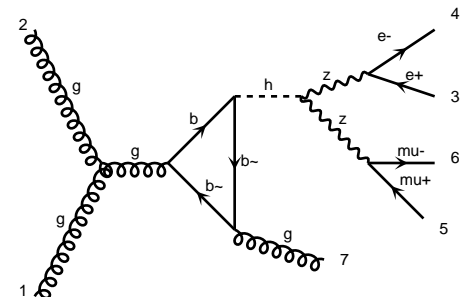


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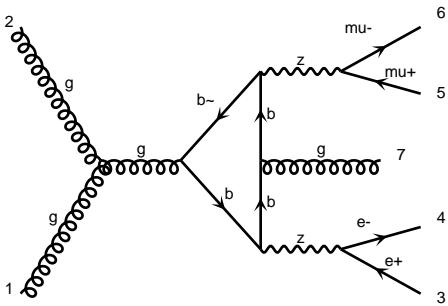


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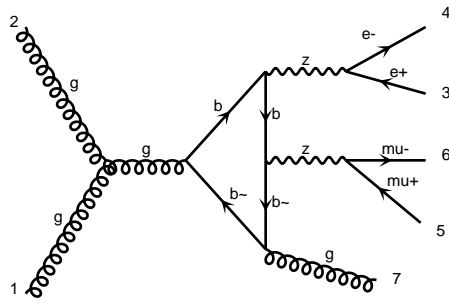


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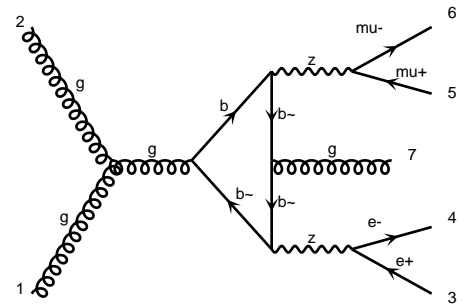


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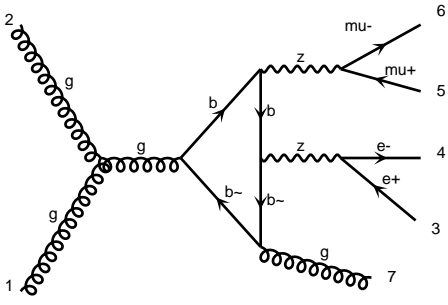


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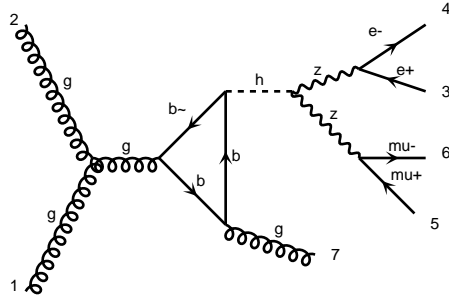


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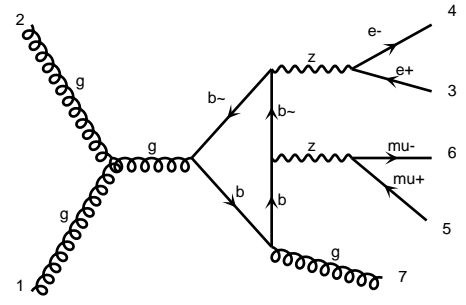


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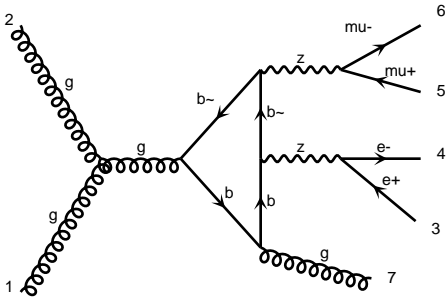


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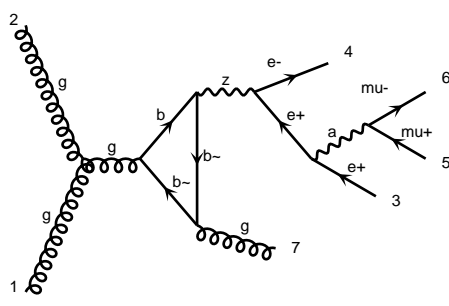


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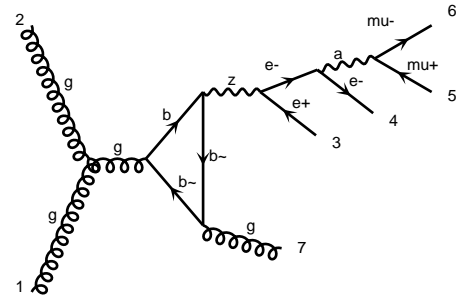


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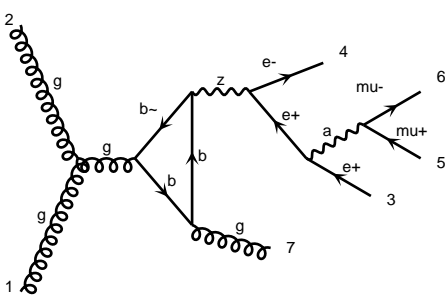


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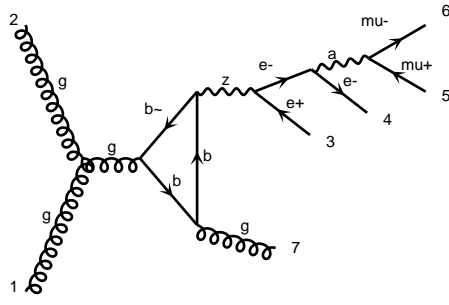


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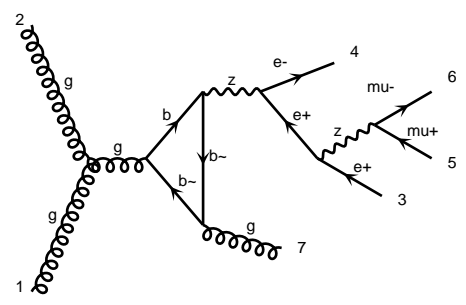


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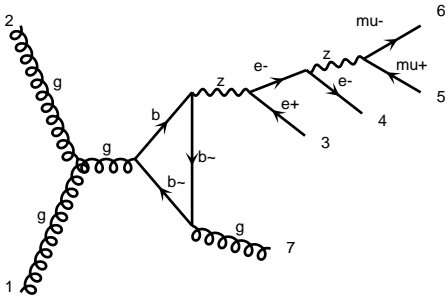


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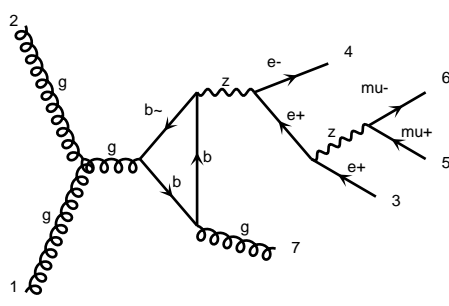


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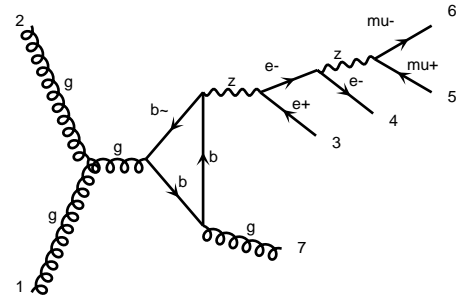


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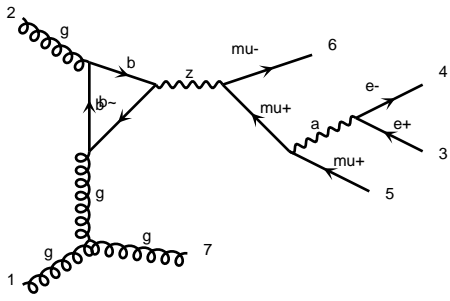


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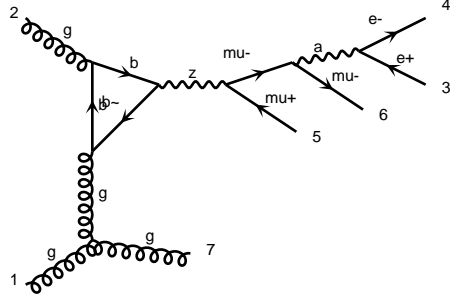


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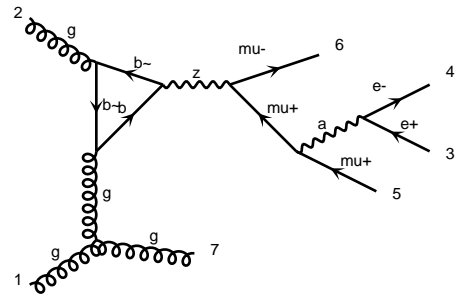


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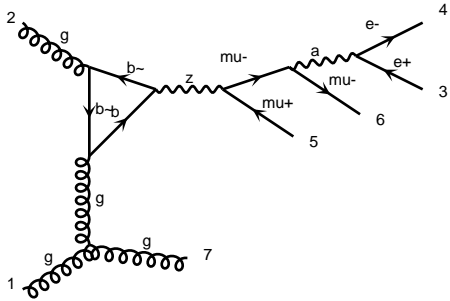


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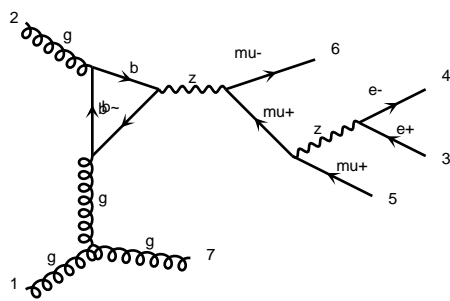


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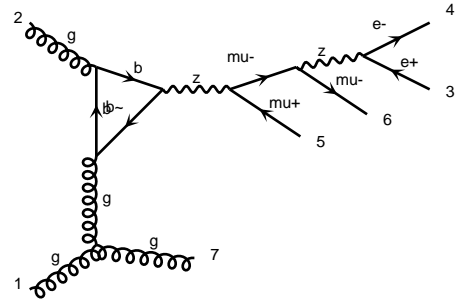


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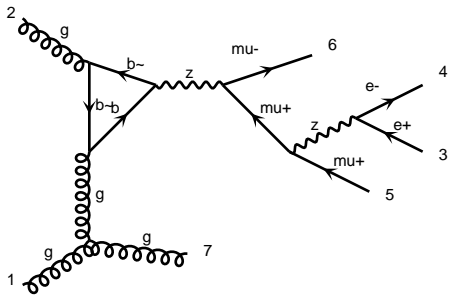


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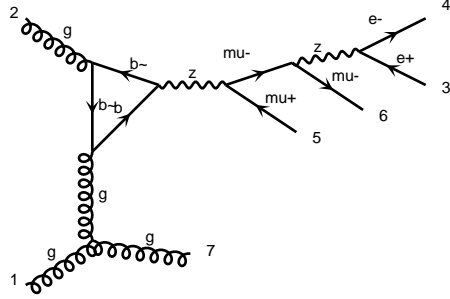


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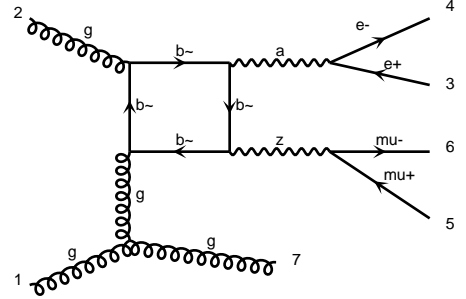


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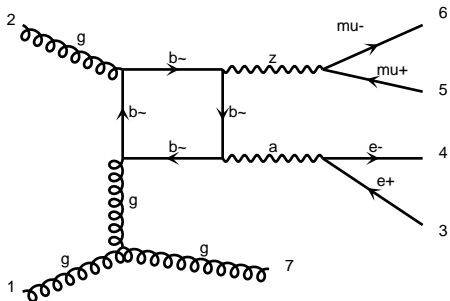


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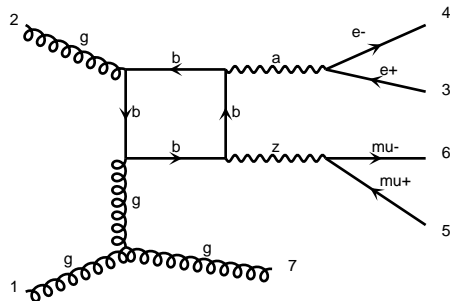


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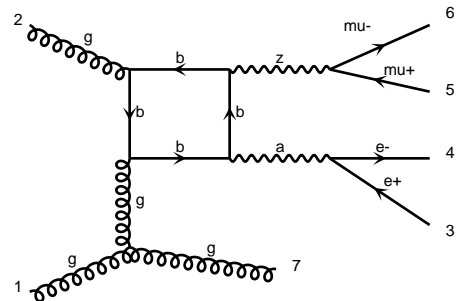


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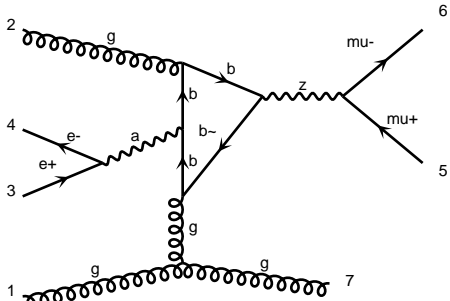


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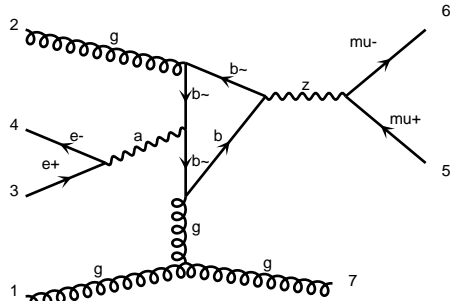


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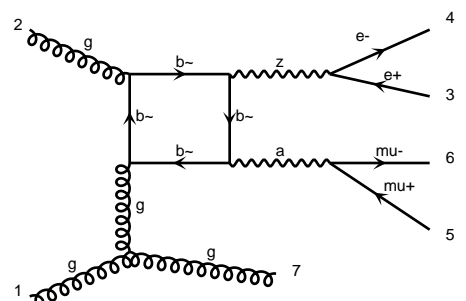


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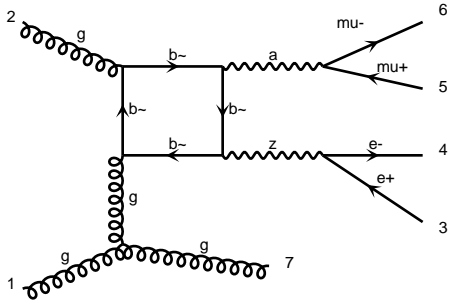


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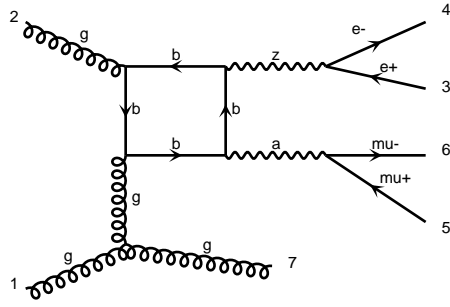


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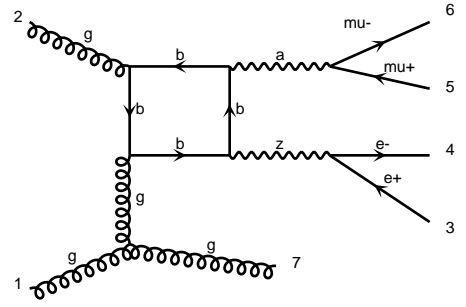


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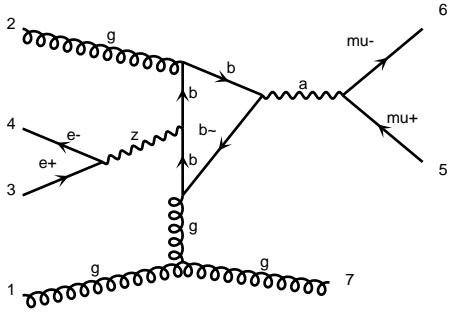


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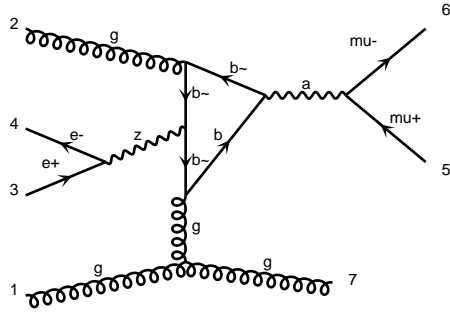


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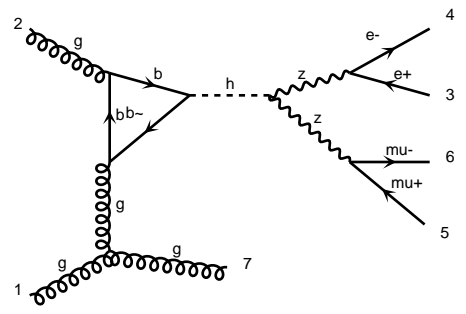


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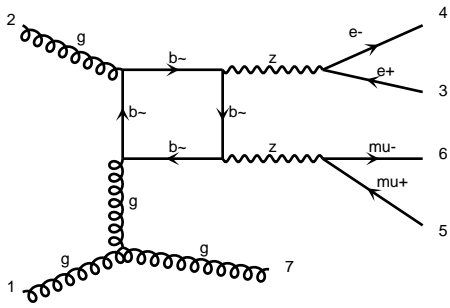


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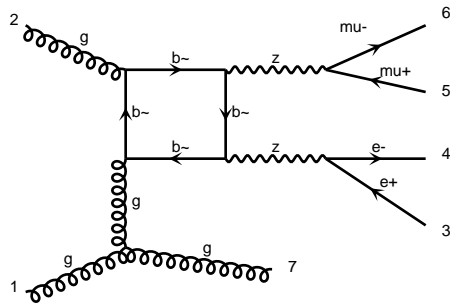


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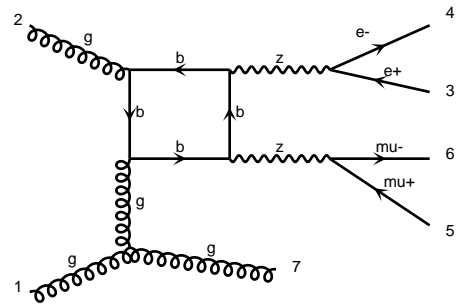


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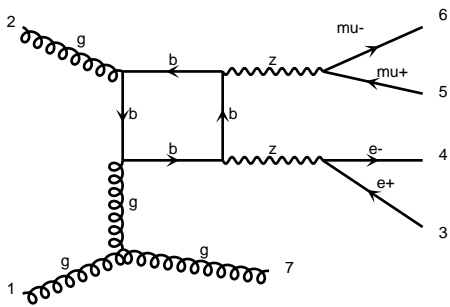


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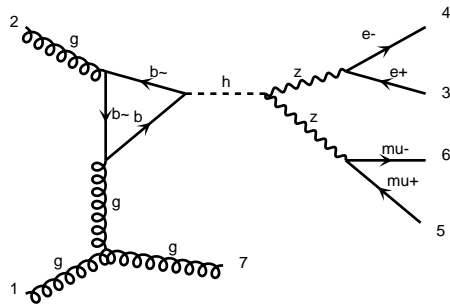


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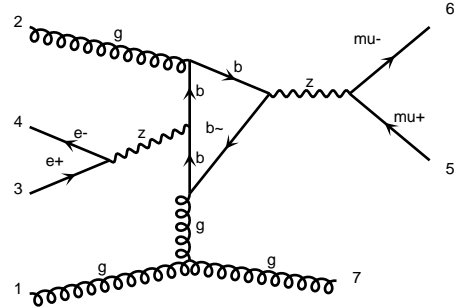


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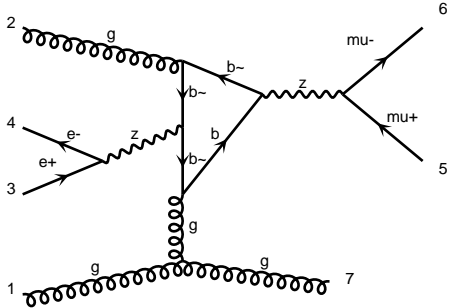


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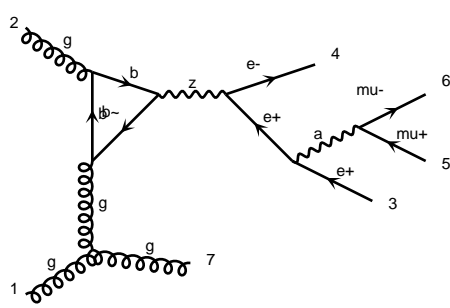


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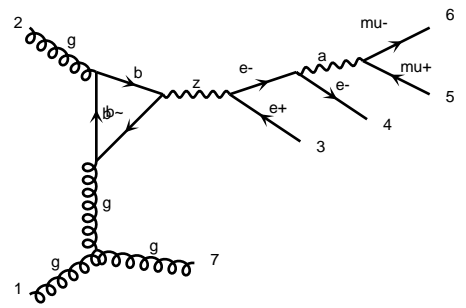


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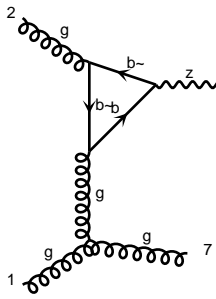


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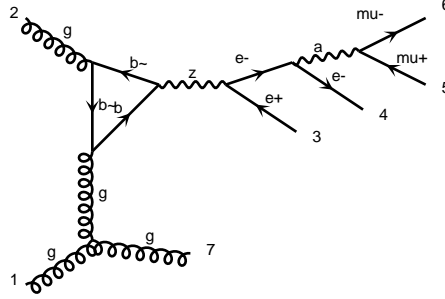


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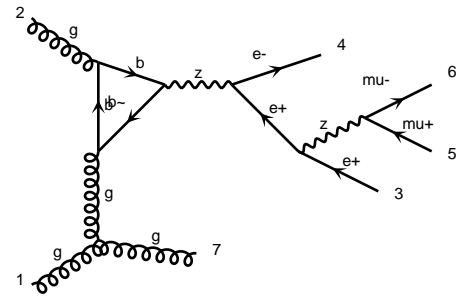


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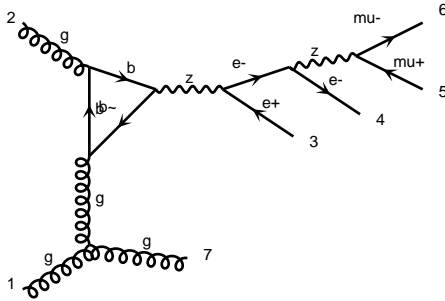


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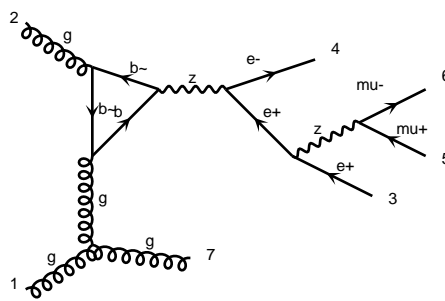


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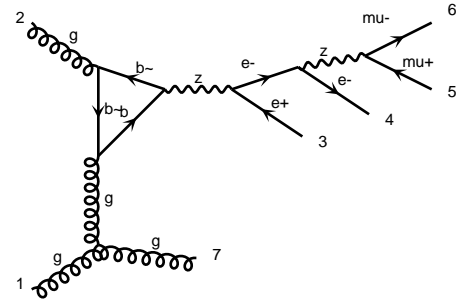


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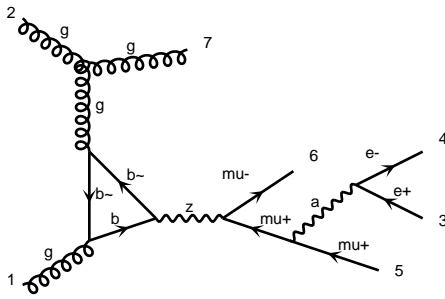


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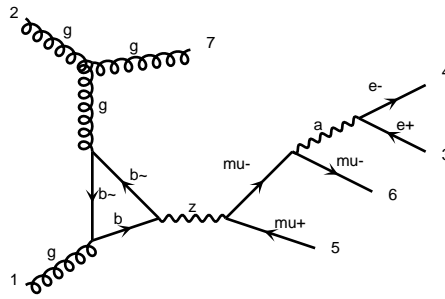


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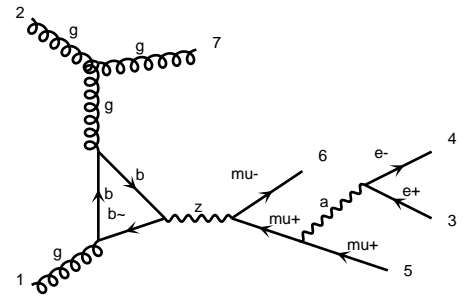


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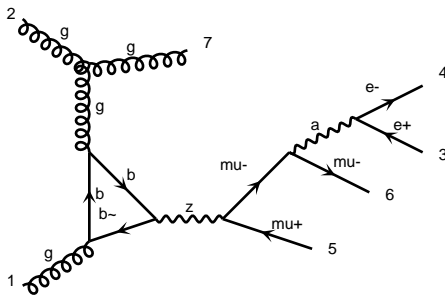


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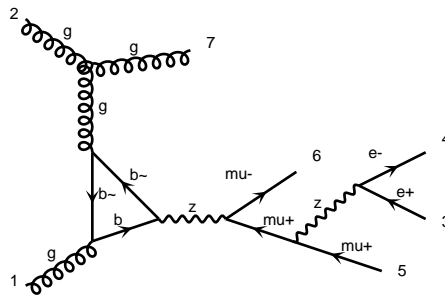


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QCD=3, QED=4

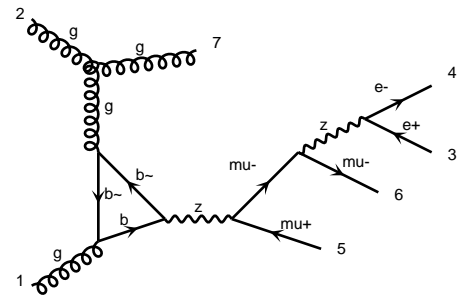


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QCD=3, QED=4

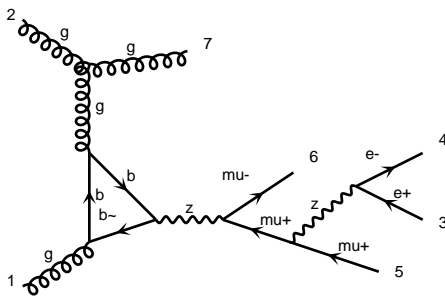


diagram 523

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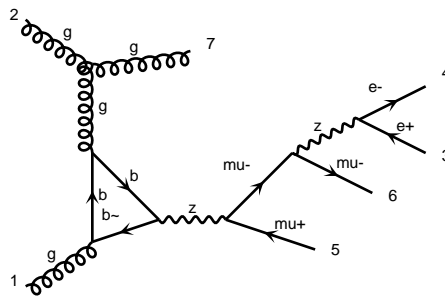


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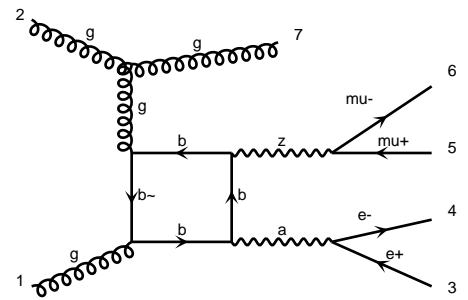


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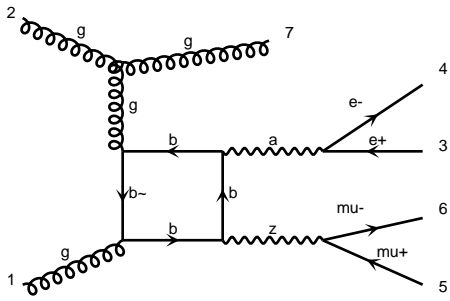


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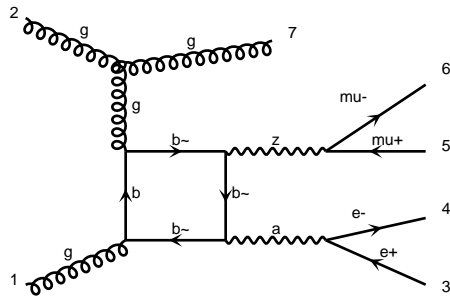


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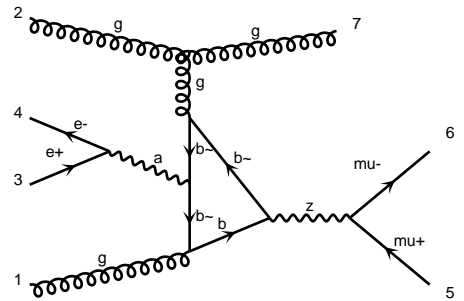


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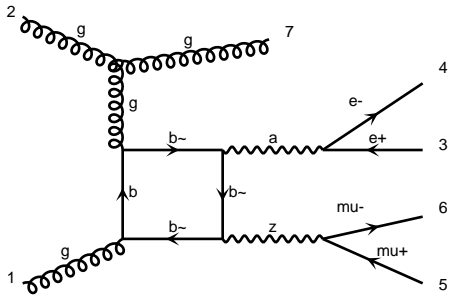


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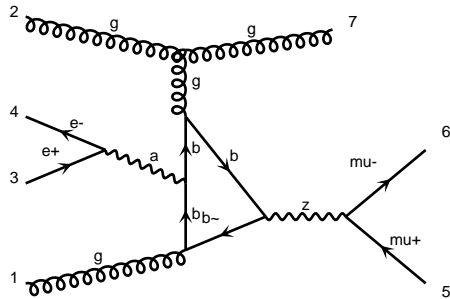


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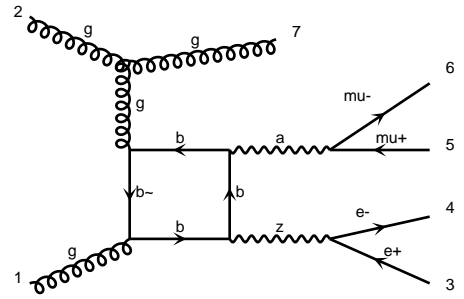


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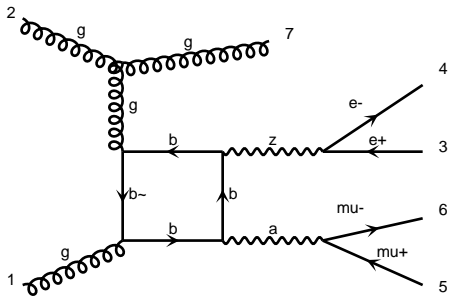


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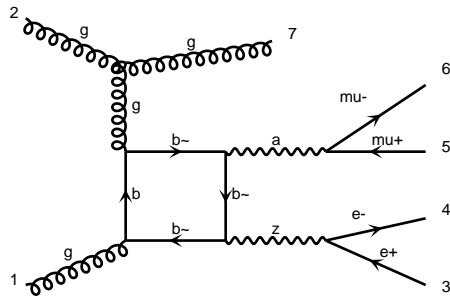


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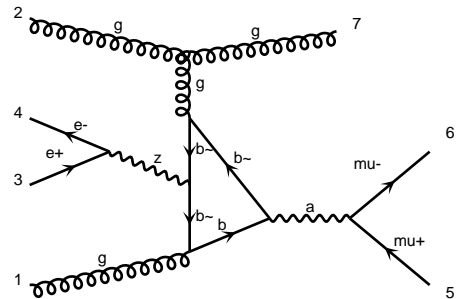


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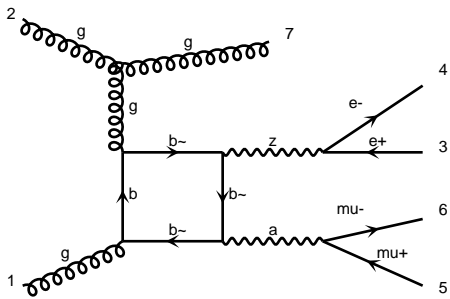


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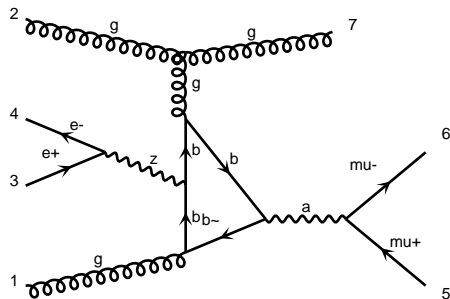


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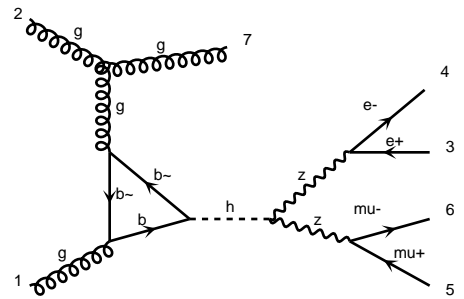


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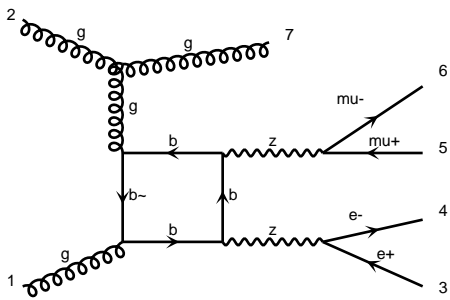


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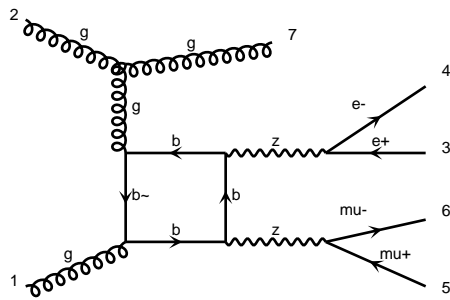


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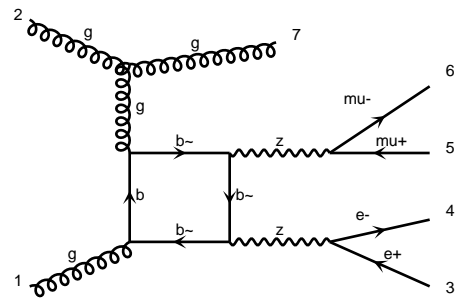


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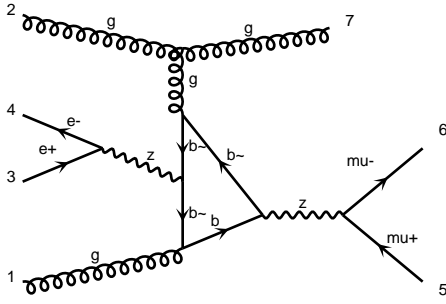


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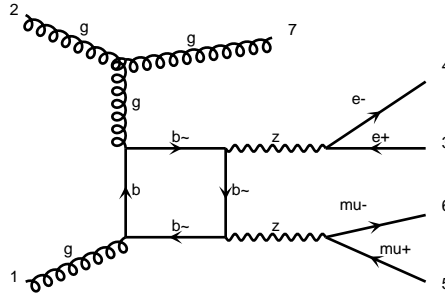


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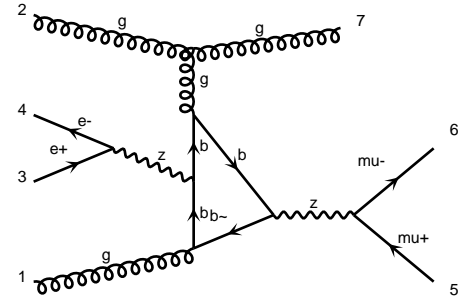


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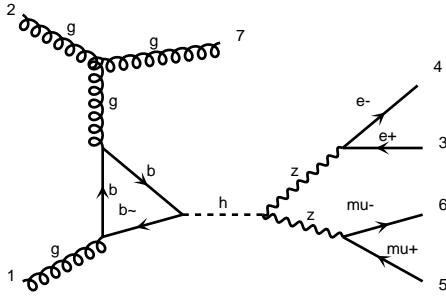


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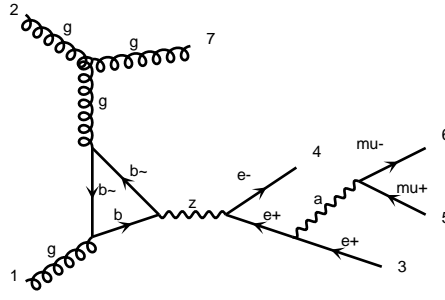


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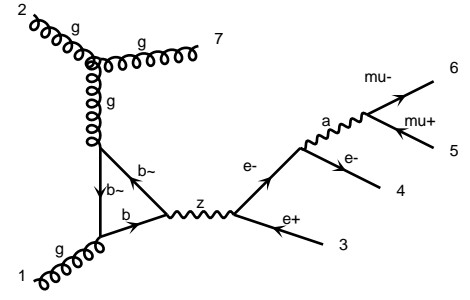


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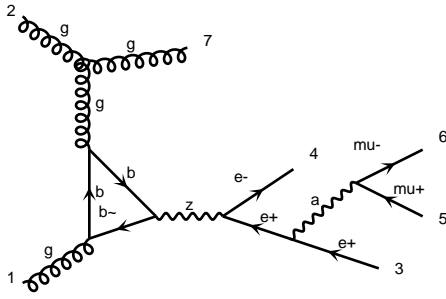


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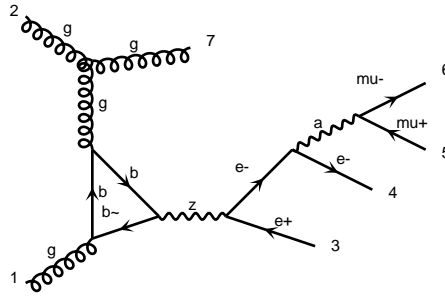


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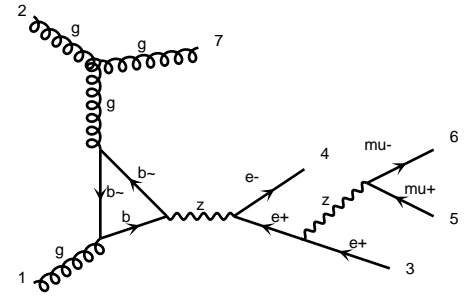


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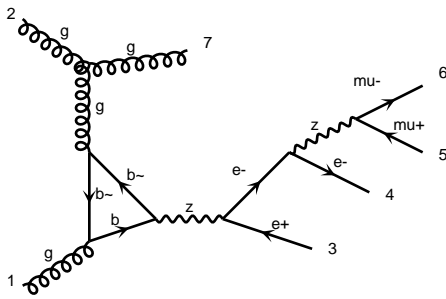


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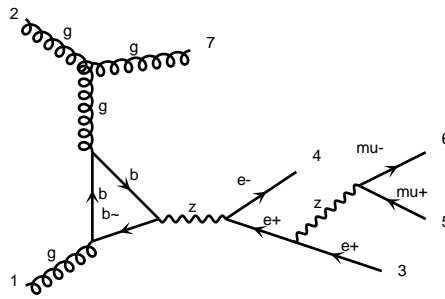


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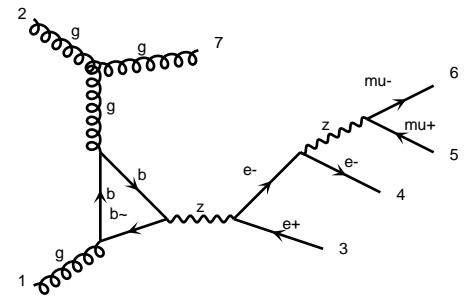


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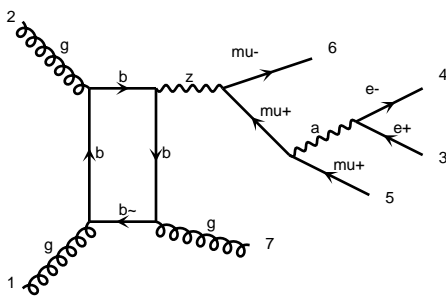


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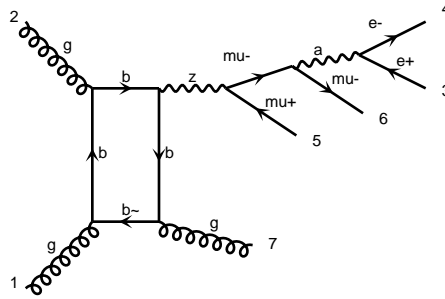


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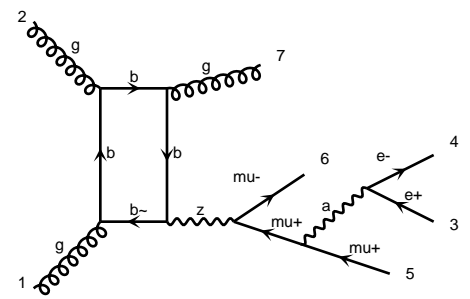


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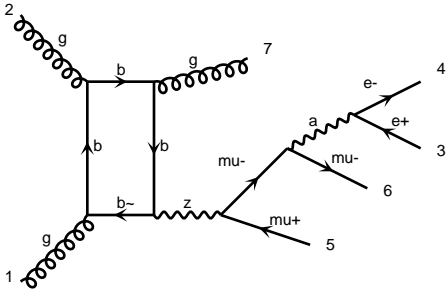


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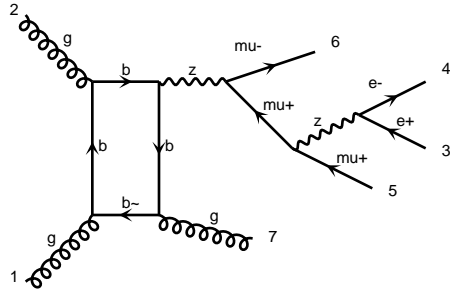


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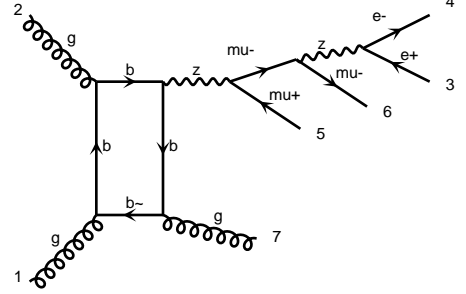


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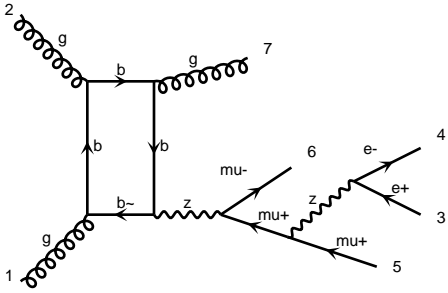


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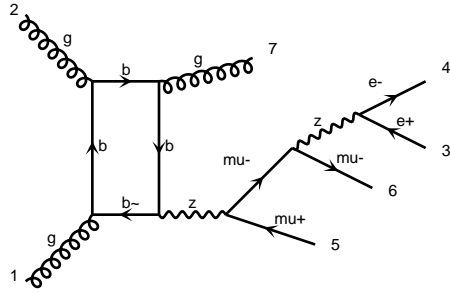


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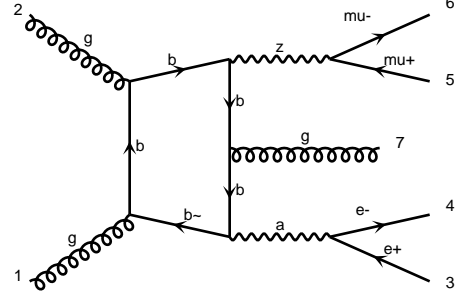


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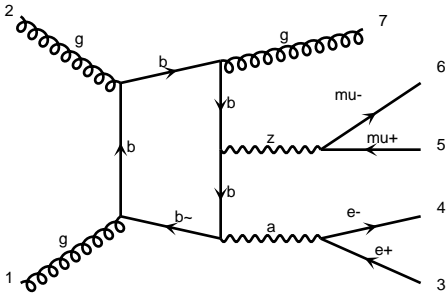


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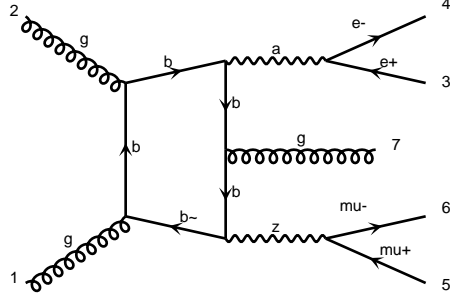


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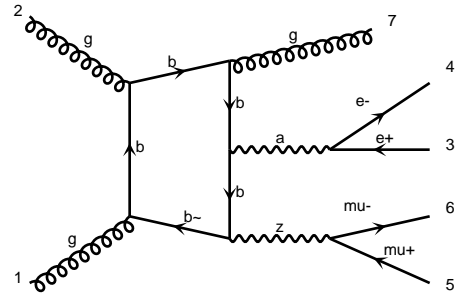


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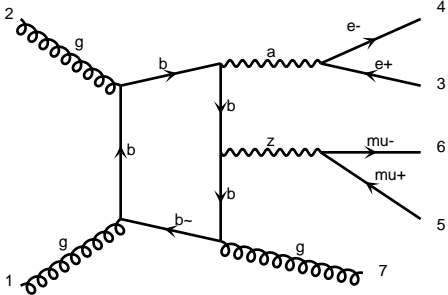


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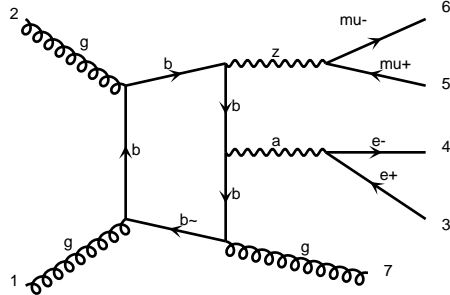


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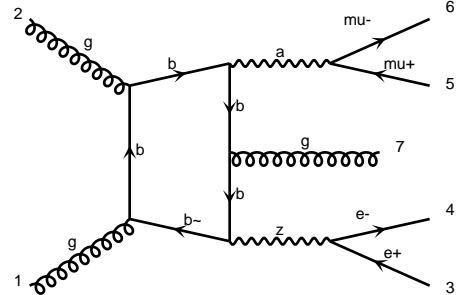


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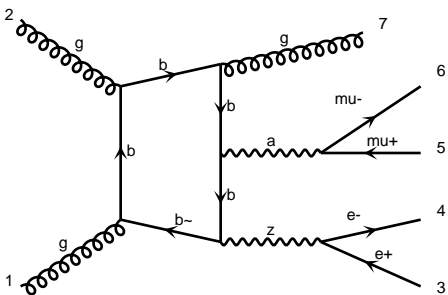


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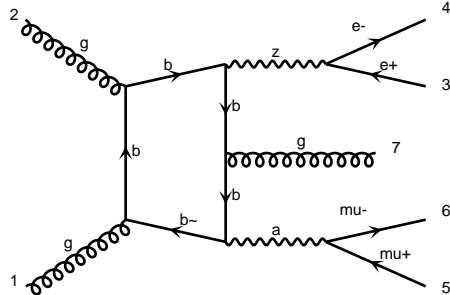


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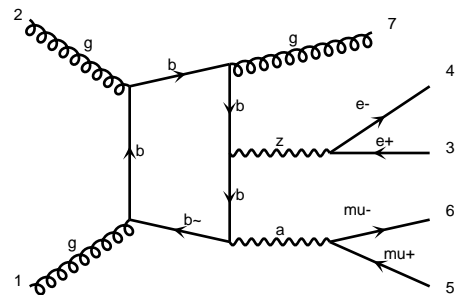


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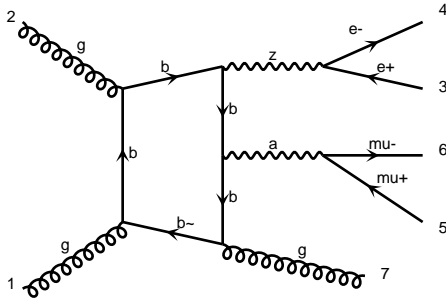


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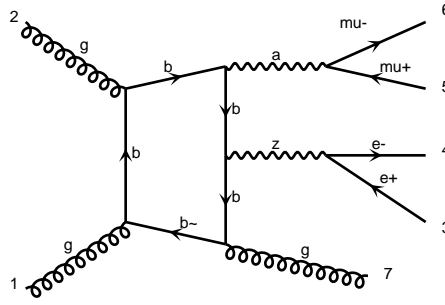


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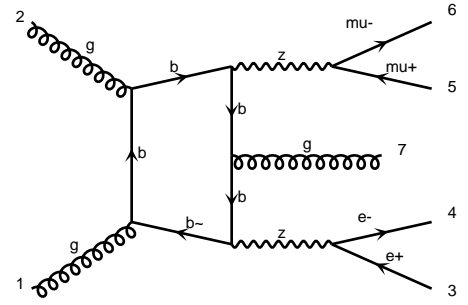


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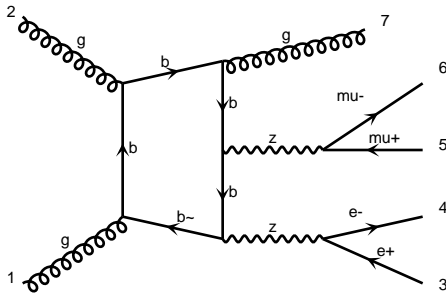


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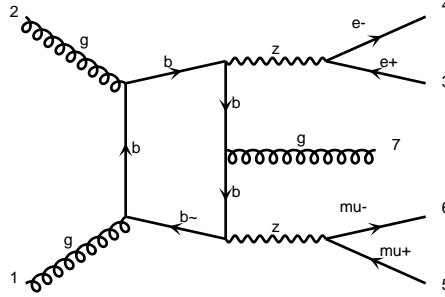


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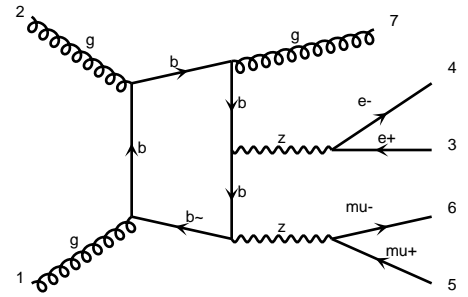


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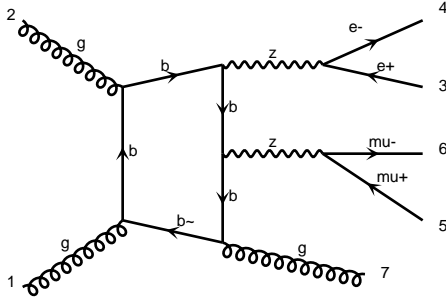


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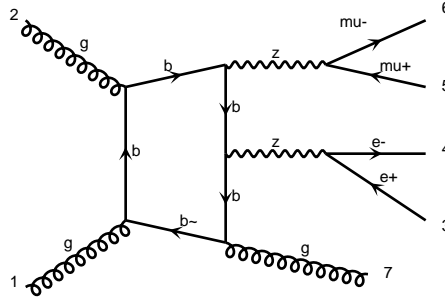


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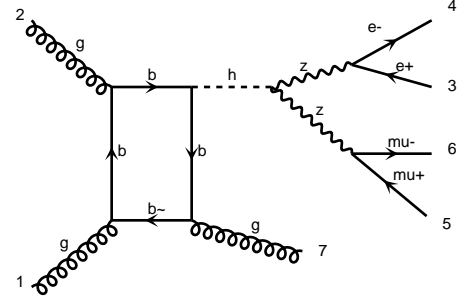


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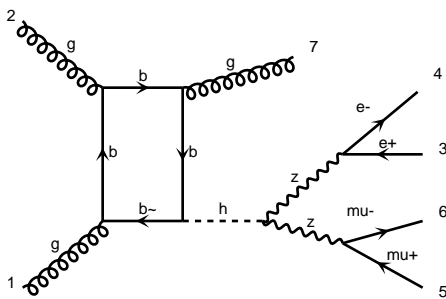


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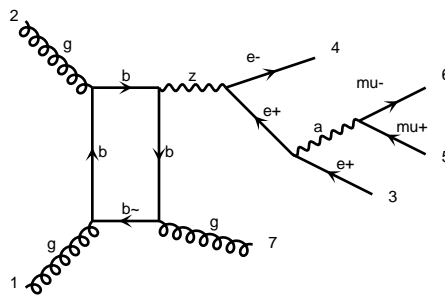


diagram 581 QCD=3, QED=4

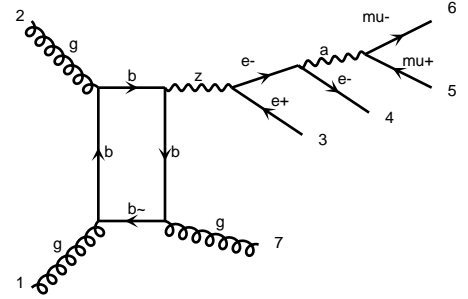


diagram 582 QCD=3, QED=4

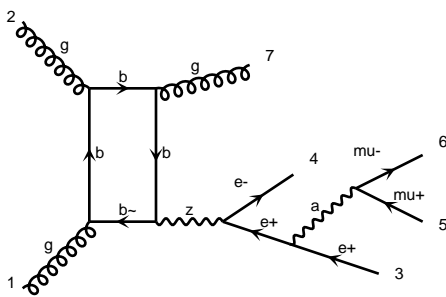


diagram 583 QCD=3, QED=4

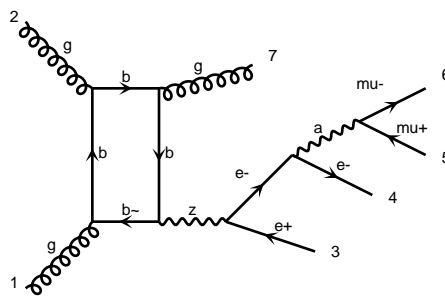


diagram 584 QCD=3, QED=4

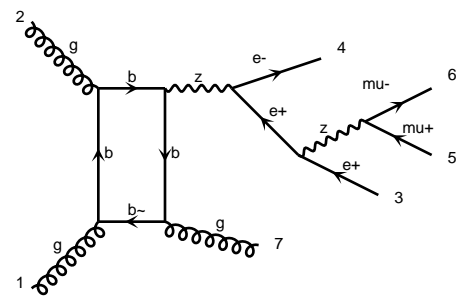


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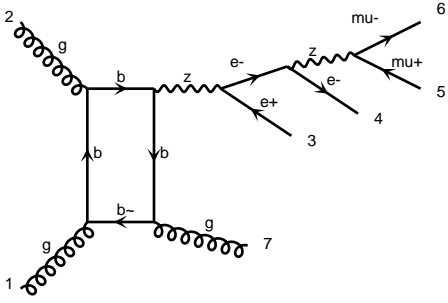


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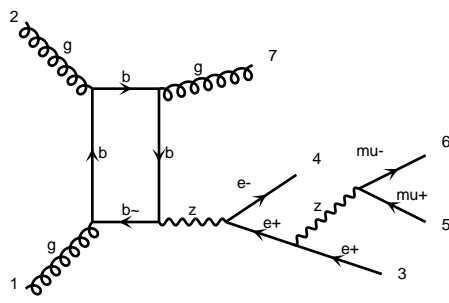


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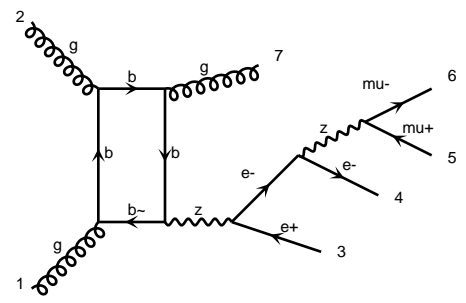


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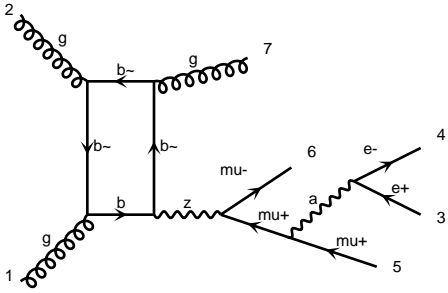


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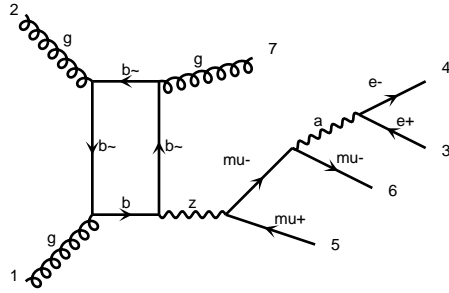


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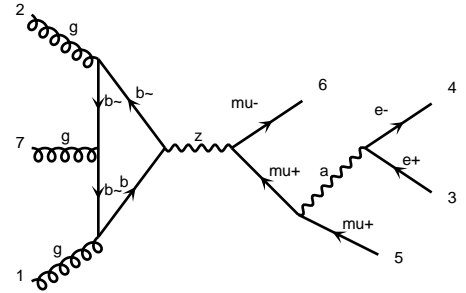


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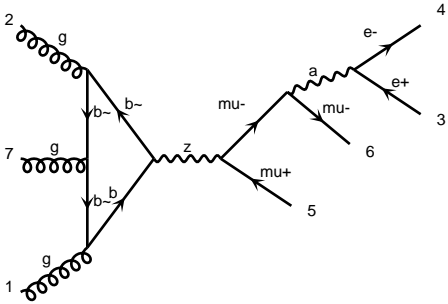


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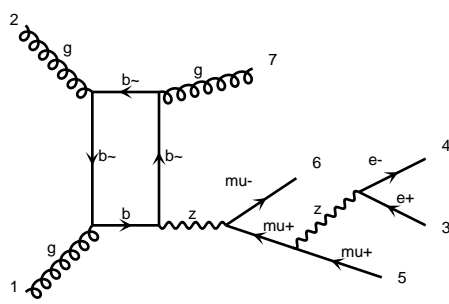


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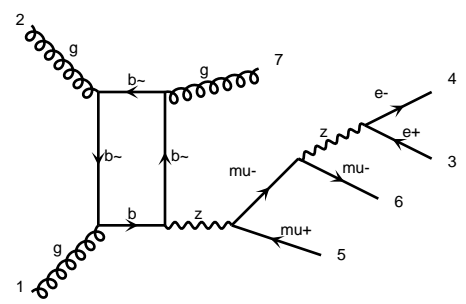


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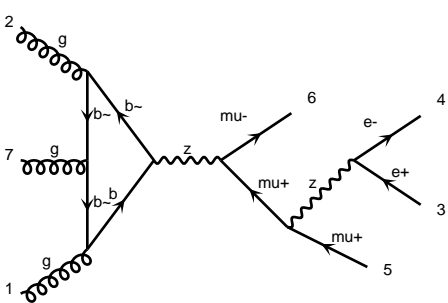


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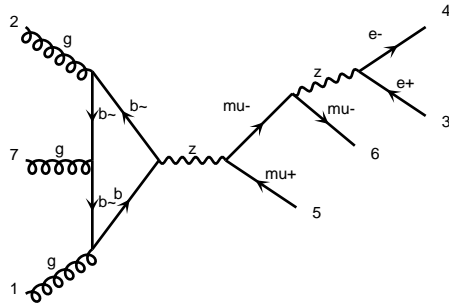


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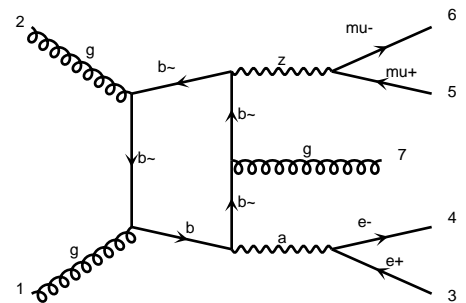


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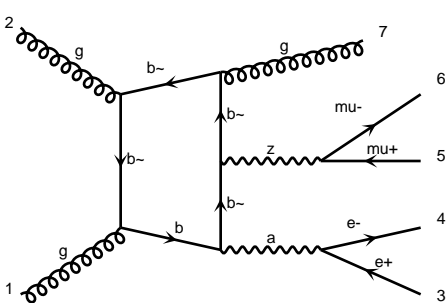


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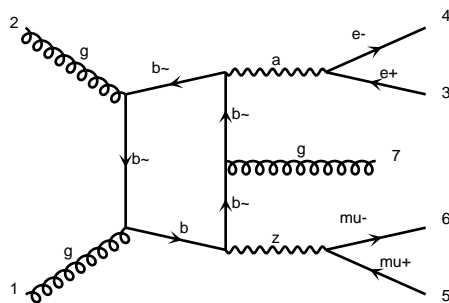


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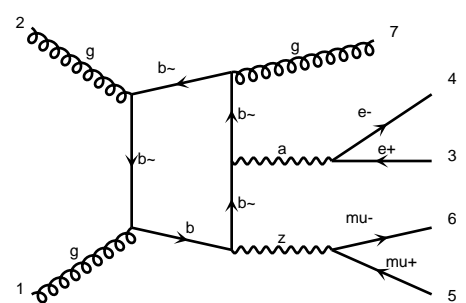


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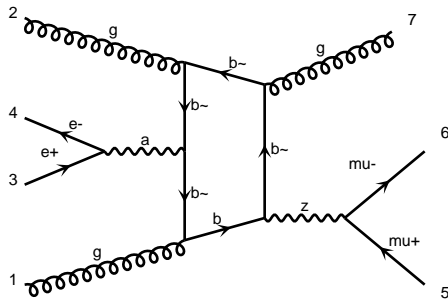


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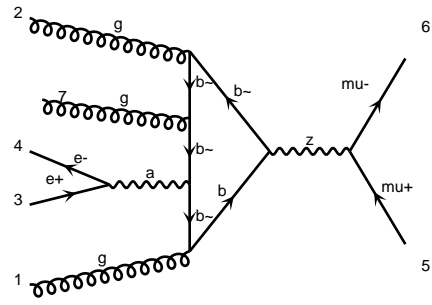


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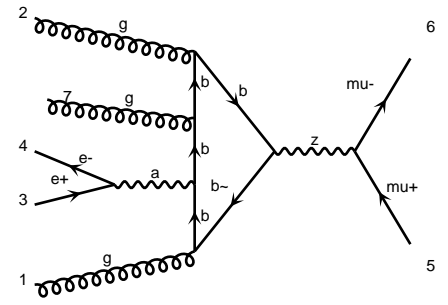


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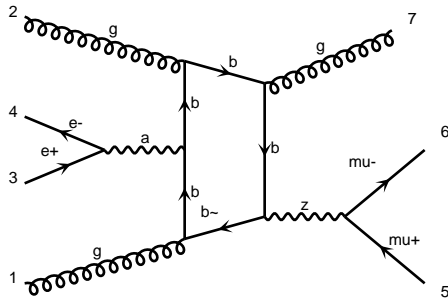


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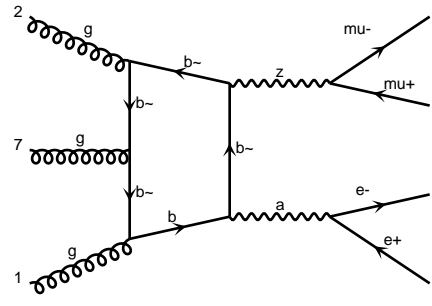


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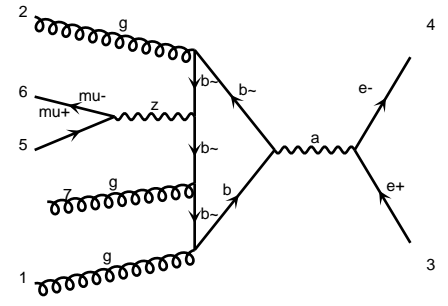


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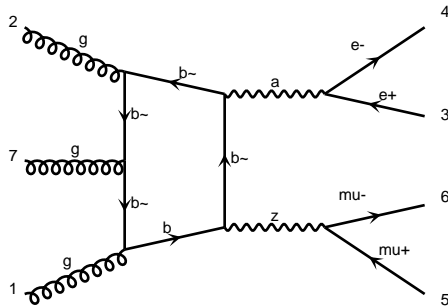


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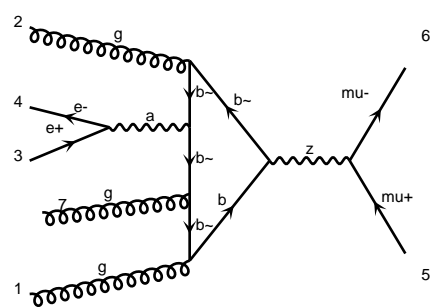


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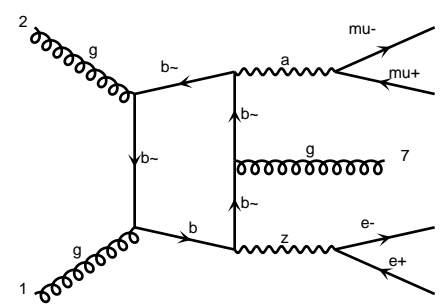


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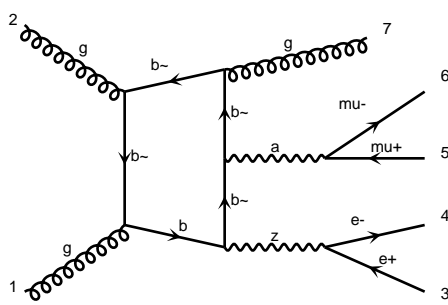


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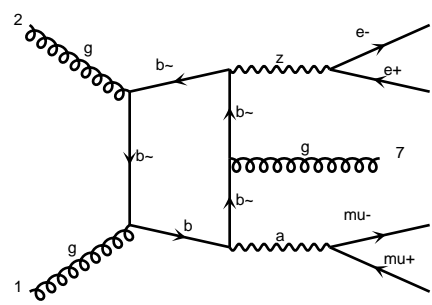


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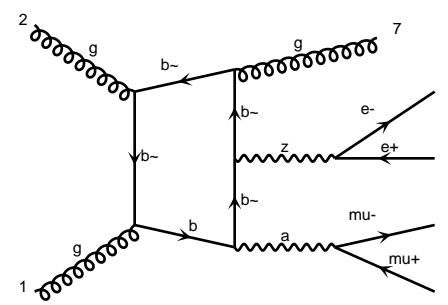


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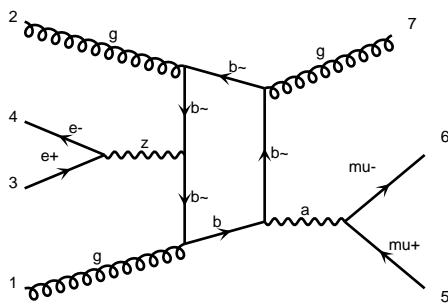


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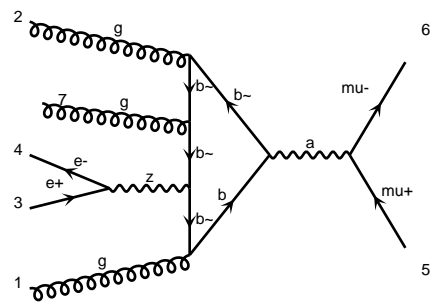


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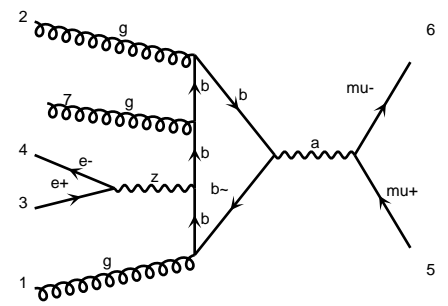


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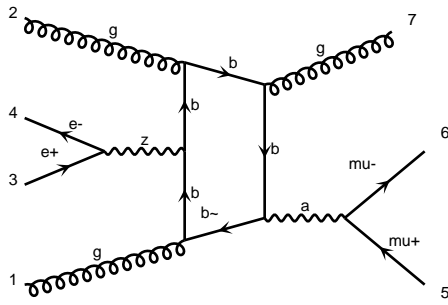


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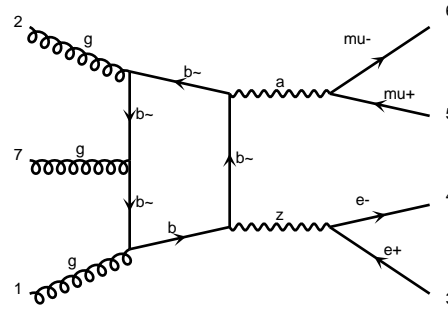


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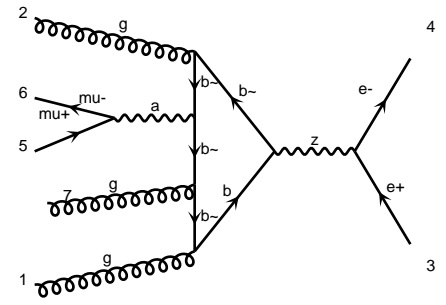


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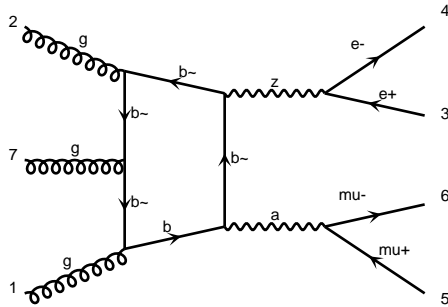


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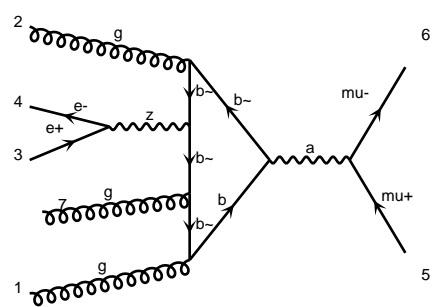


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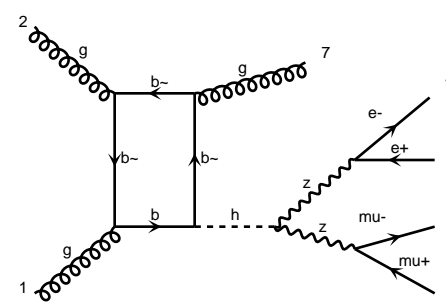


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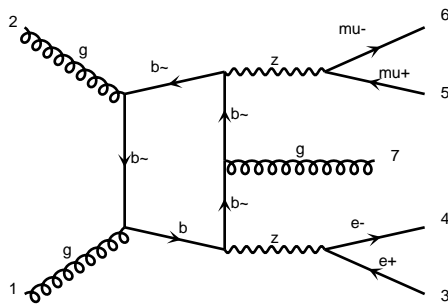


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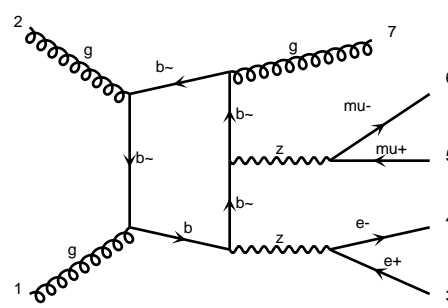


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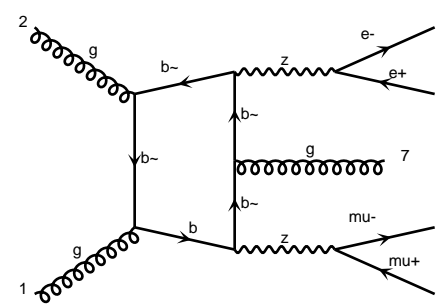


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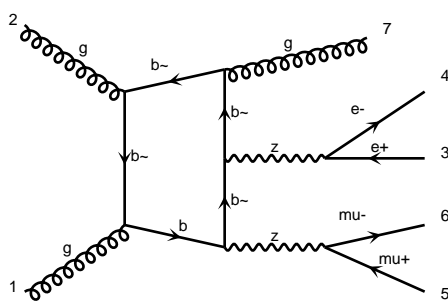


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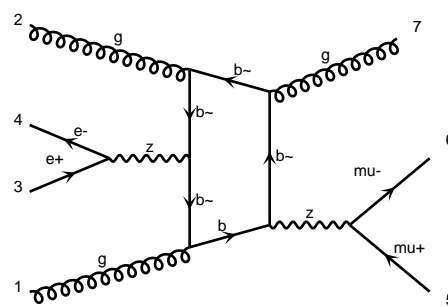


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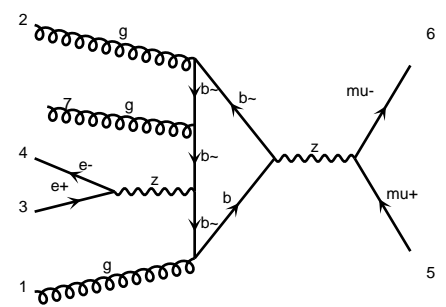


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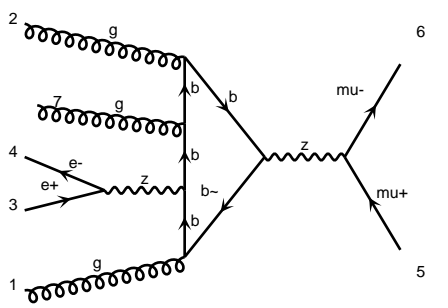


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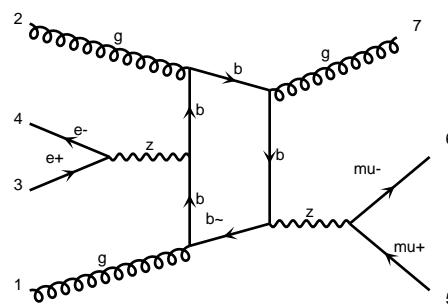


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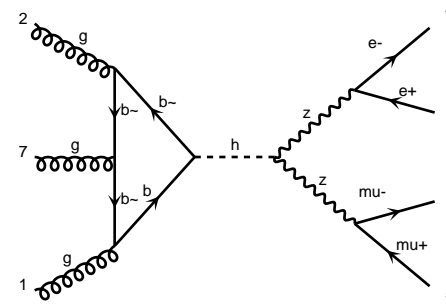


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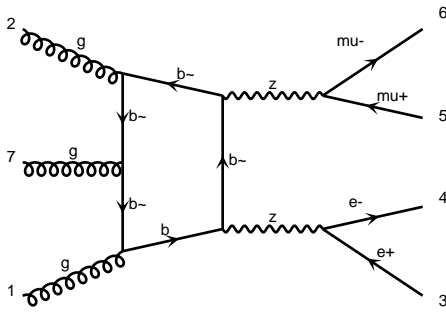


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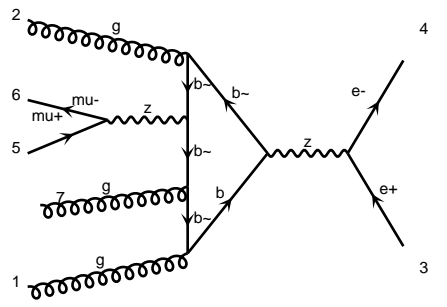


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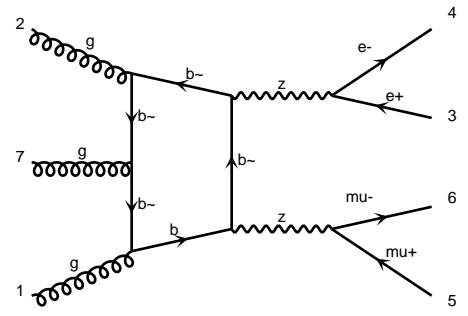


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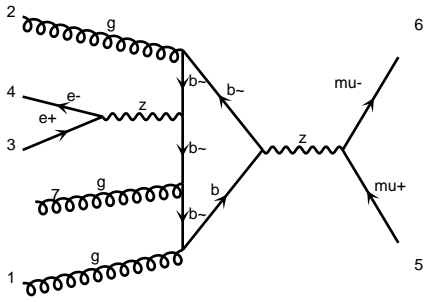


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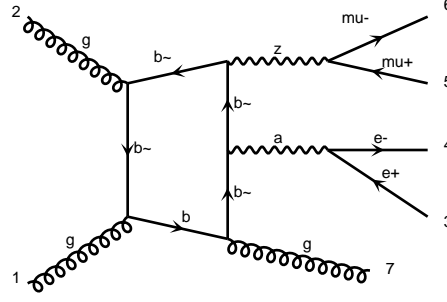


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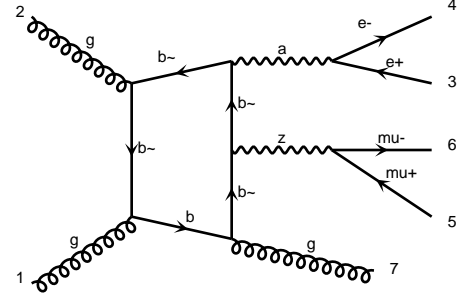


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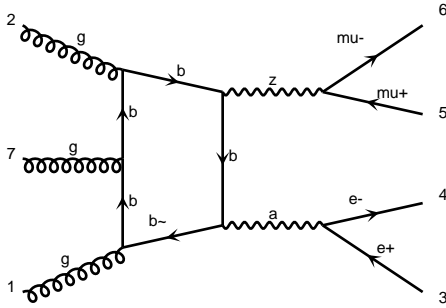


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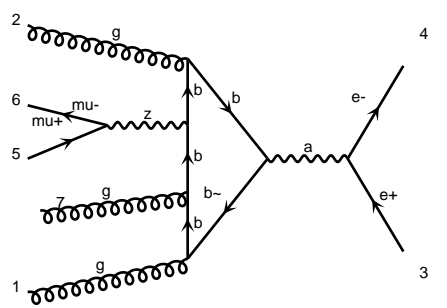


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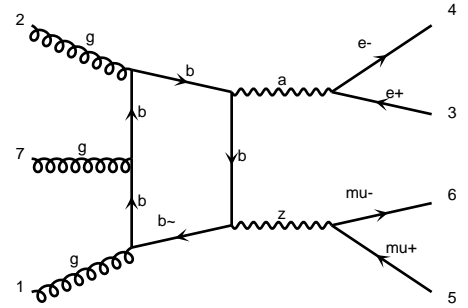


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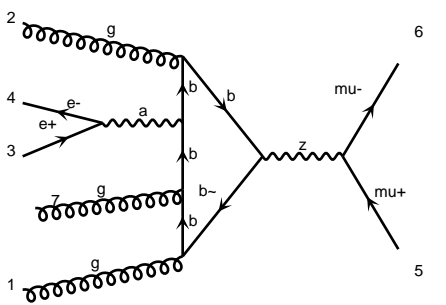


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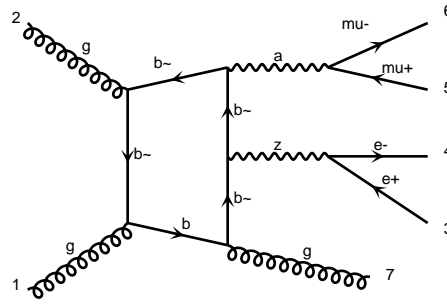


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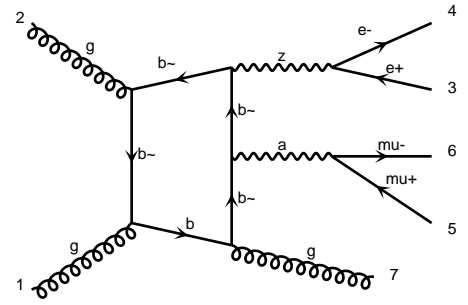


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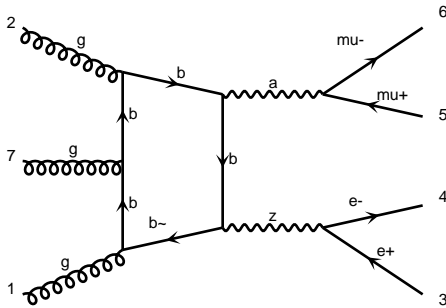


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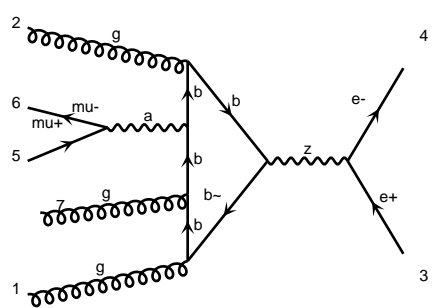


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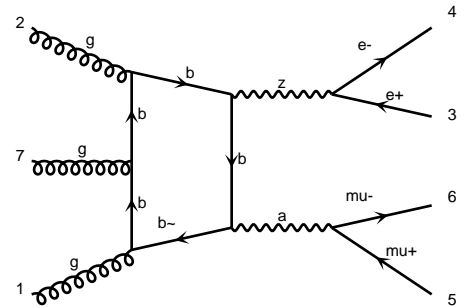


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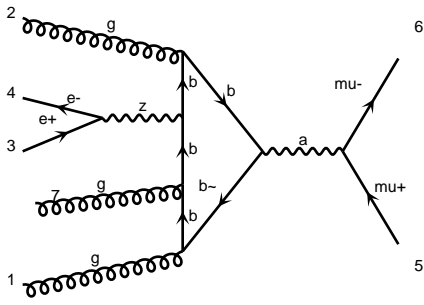


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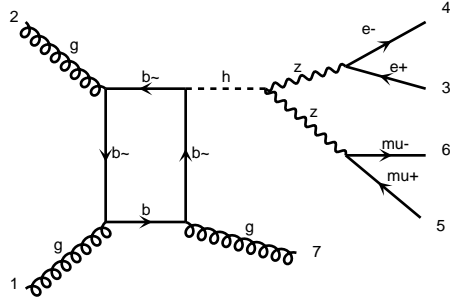


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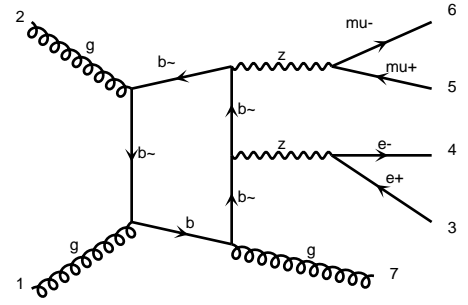


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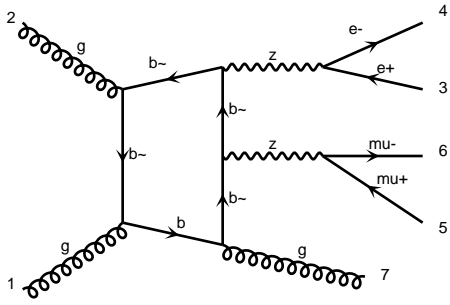


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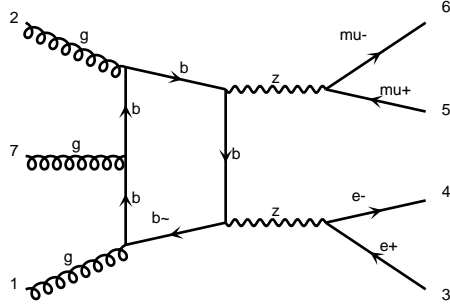


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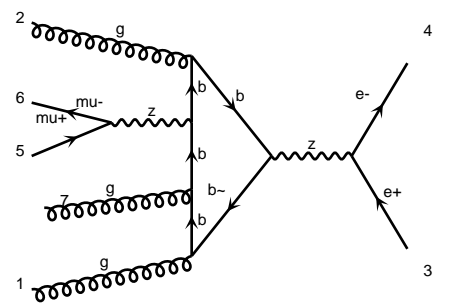


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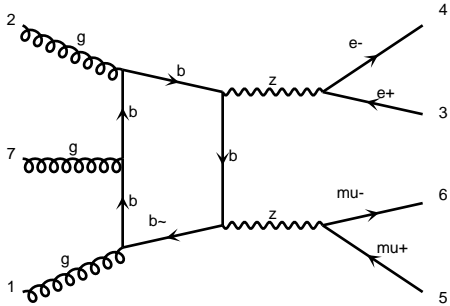


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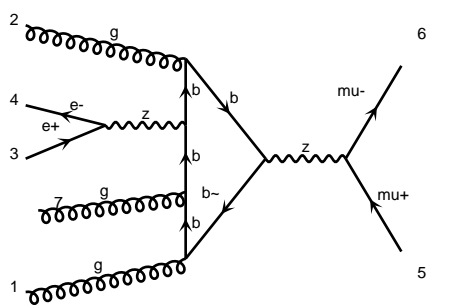


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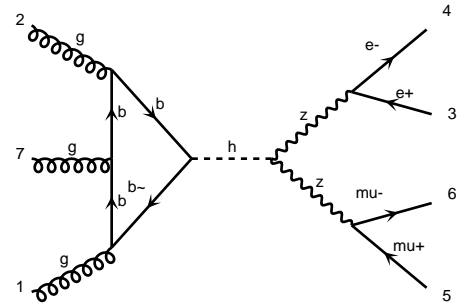


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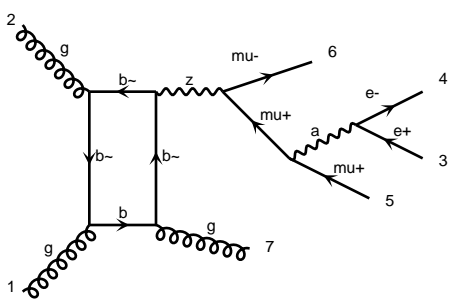


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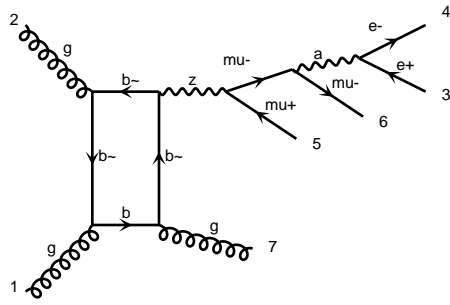


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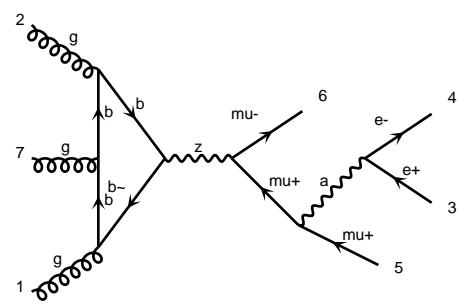


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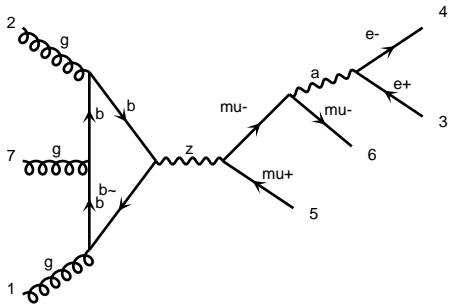


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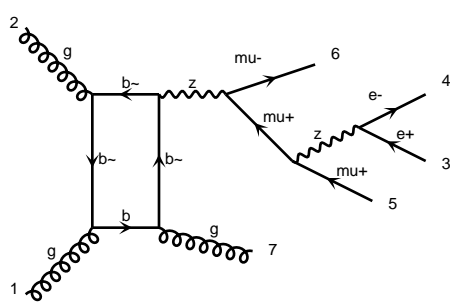


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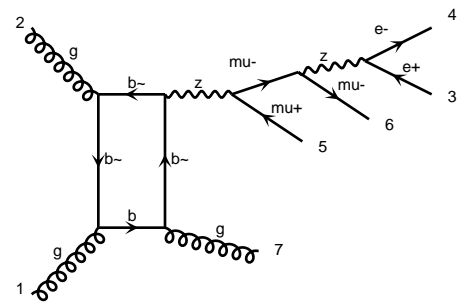


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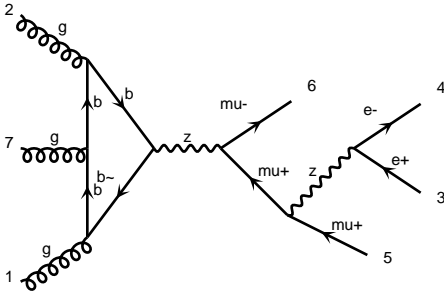


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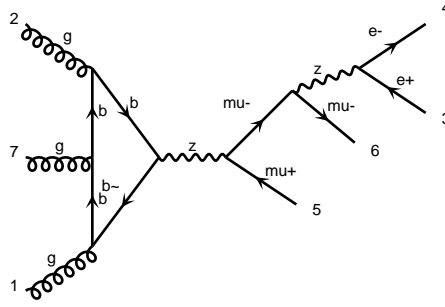


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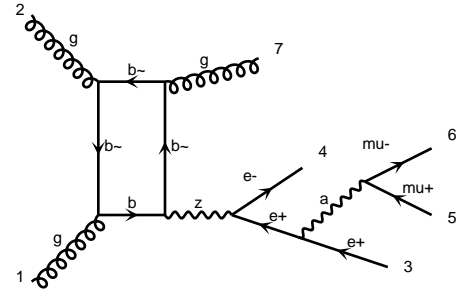


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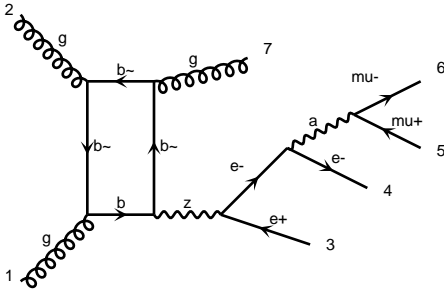


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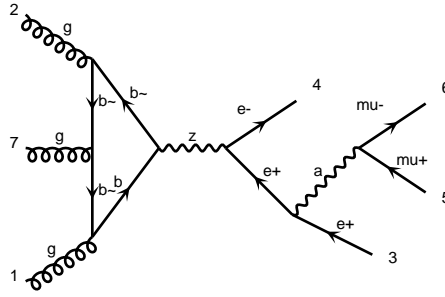


diagram 665 QCD=3, QED=4

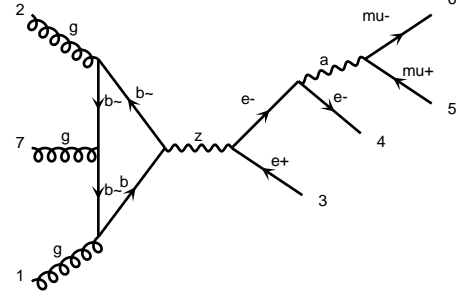


diagram 666 QCD=3, QED=4

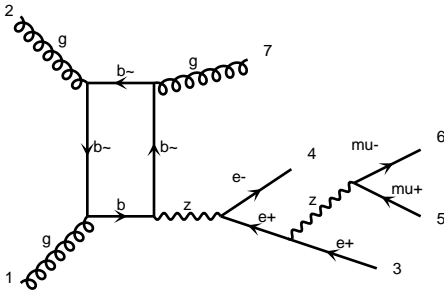


diagram 667 QCD=3, QED=4

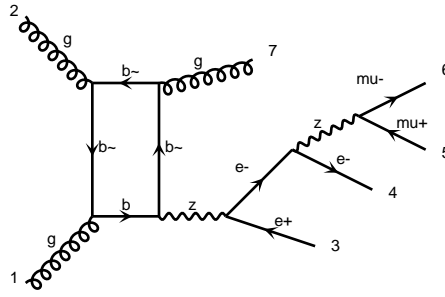


diagram 668 QCD=3, QED=4

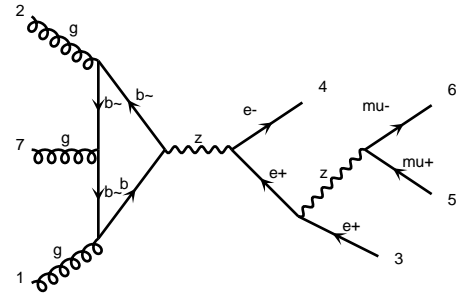


diagram 669 QCD=3, QED=4

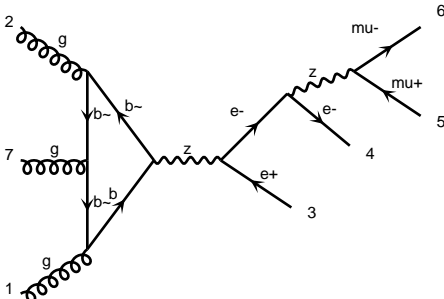


diagram 670 QCD=3, QED=4

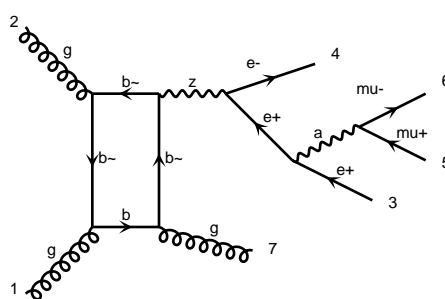


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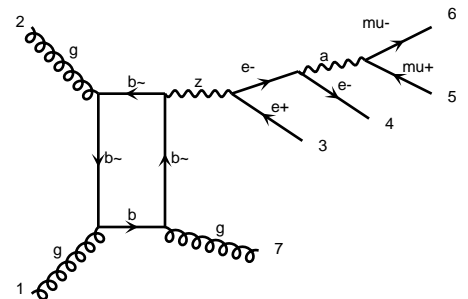


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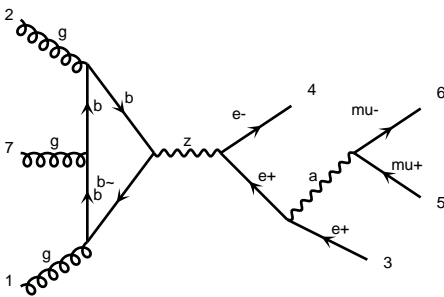


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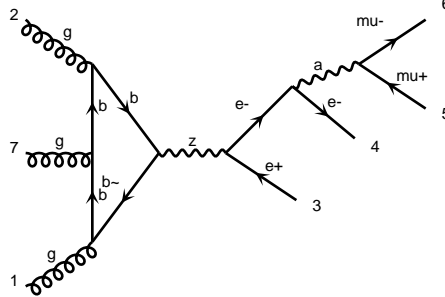


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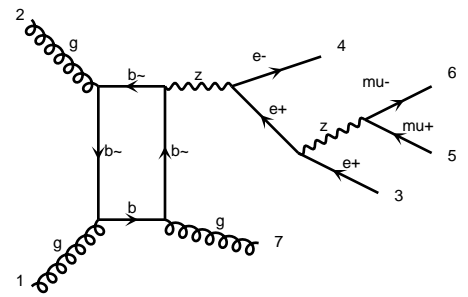


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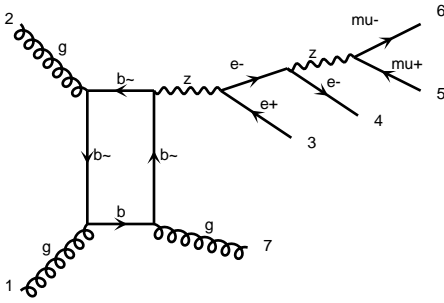


diagram 676 QCD=3, QED=4

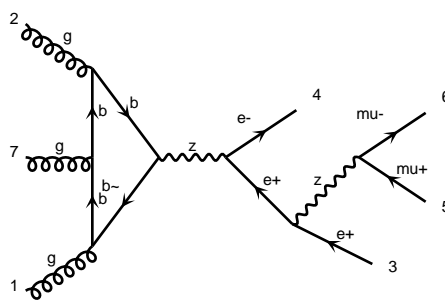


diagram 677 QCD=3, QED=4

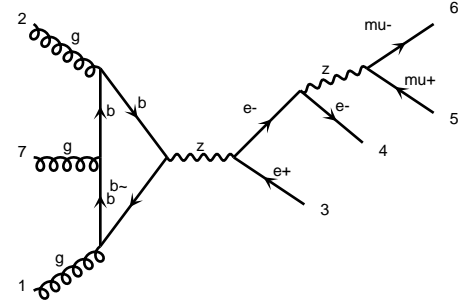


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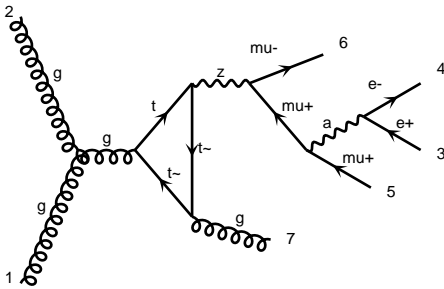


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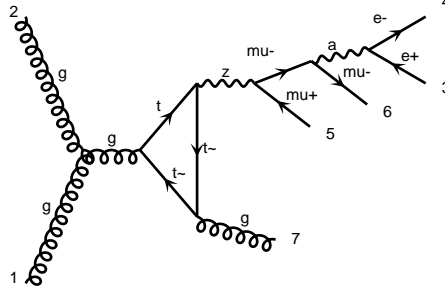


diagram 680 QCD=3, QED=4

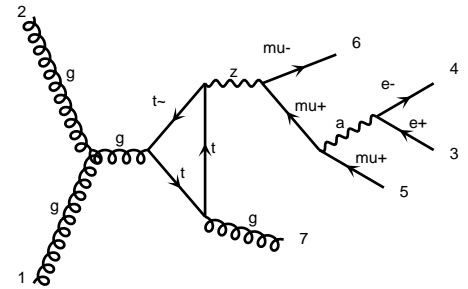


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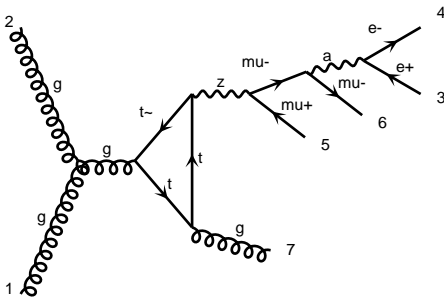


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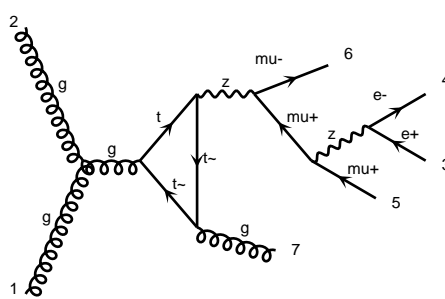


diagram 683 QCD=3, QED=4

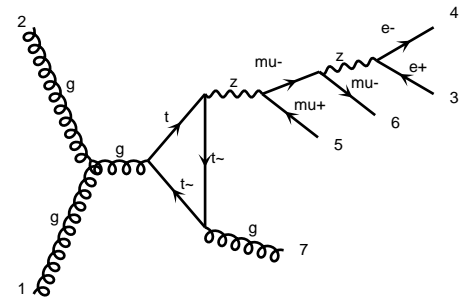


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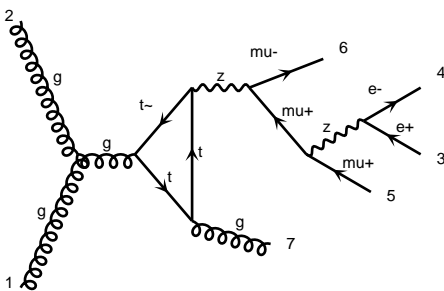


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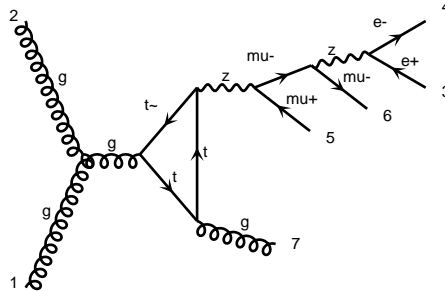


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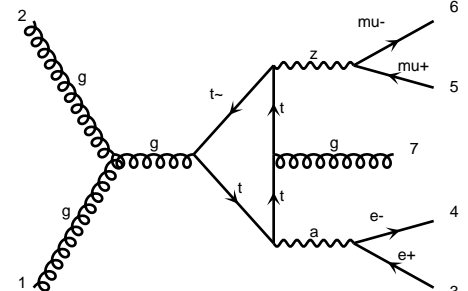


diagram 687 QCD=3, QED=4

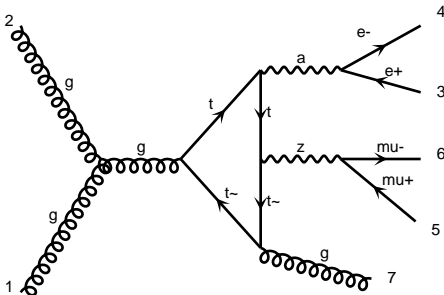


diagram 688 QCD=3, QED=4

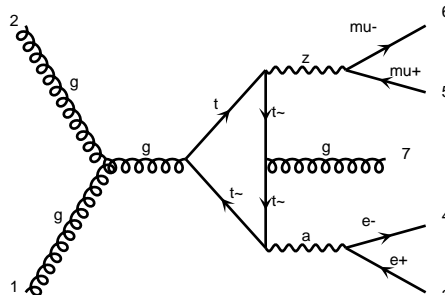


diagram 689 QCD=3, QED=4

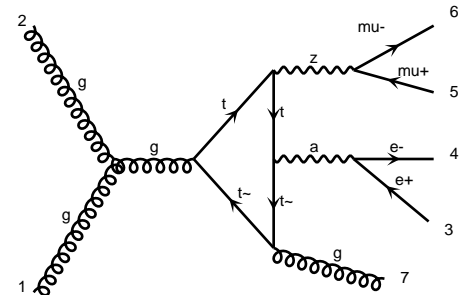


diagram 690 QCD=3, QED=4

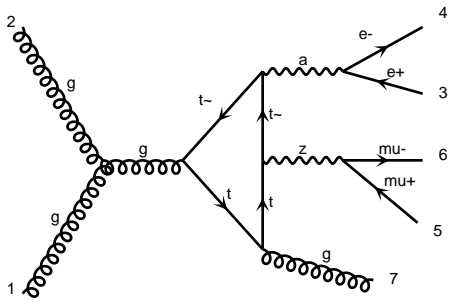


diagram 691

QCD=3, QED=4

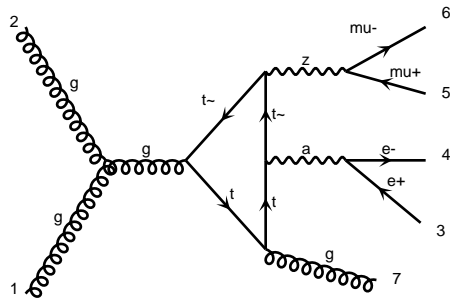


diagram 692

QCD=3, QED=4

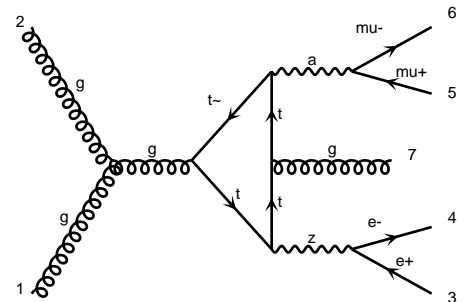


diagram 693

QCD=3, QED=4

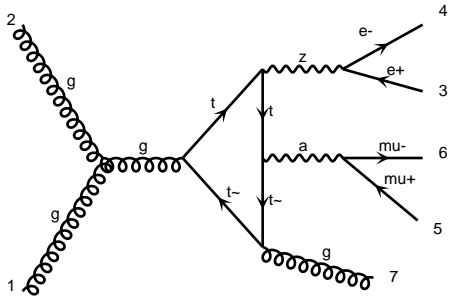


diagram 694

QCD=3, QED=4

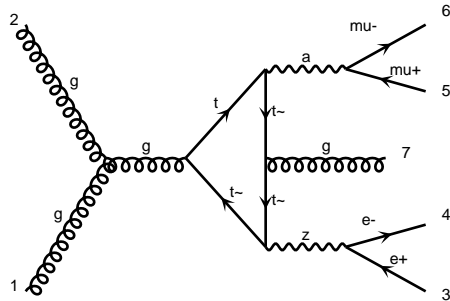


diagram 695

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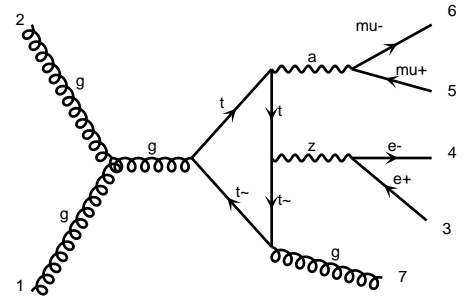


diagram 696

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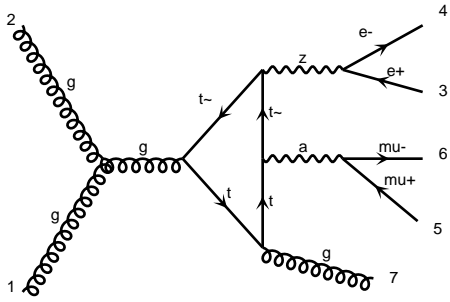


diagram 697

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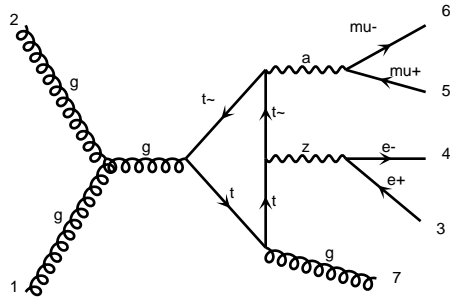


diagram 698

QCD=3, QED=4

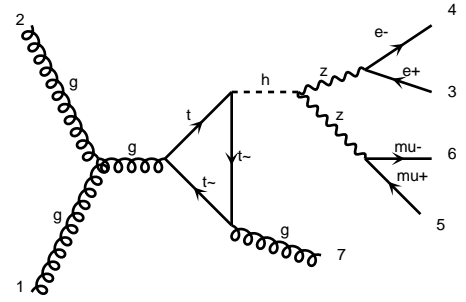


diagram 699

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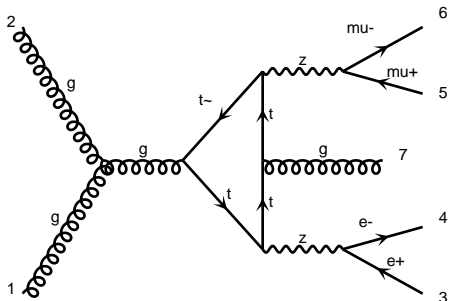


diagram 700

QCD=3, QED=4

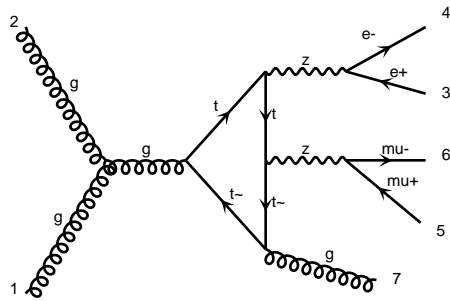


diagram 701

QCD=3, QED=4

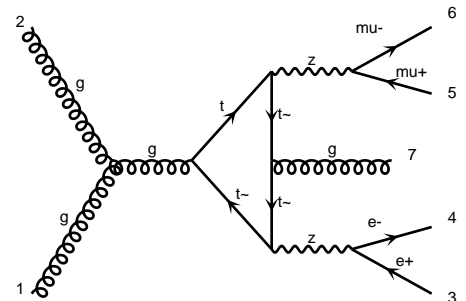


diagram 702

QCD=3, QED=4

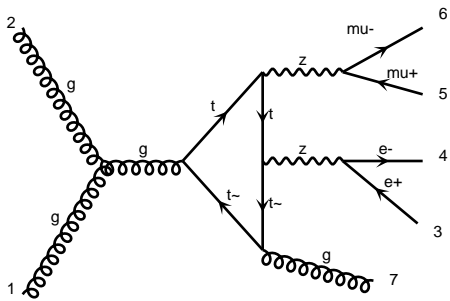


diagram 703

QCD=3, QED=4

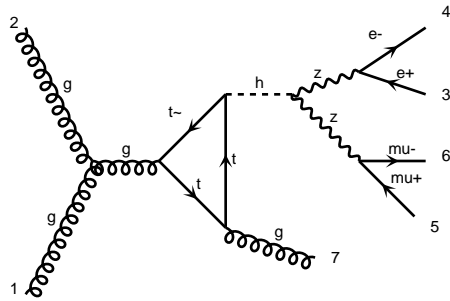


diagram 704

QCD=3, QED=4

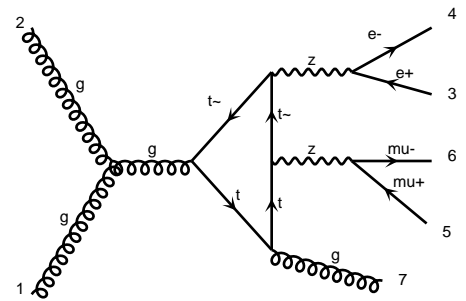


diagram 705

QCD=3, QED=4

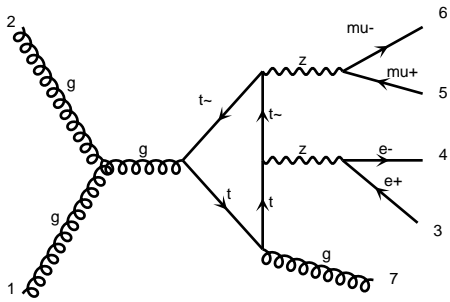


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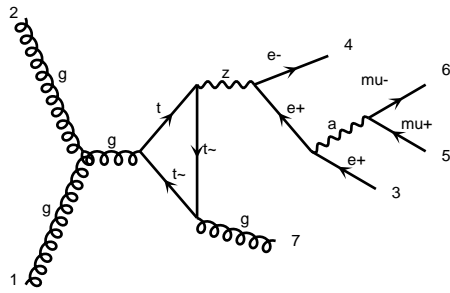


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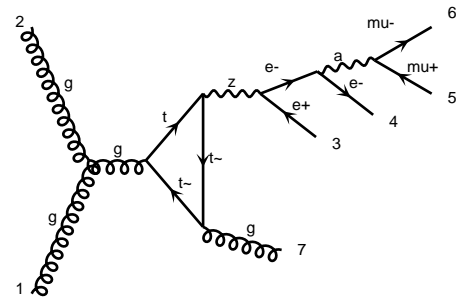


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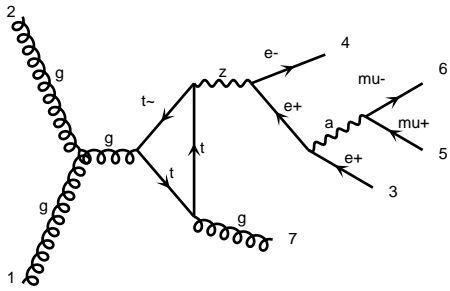


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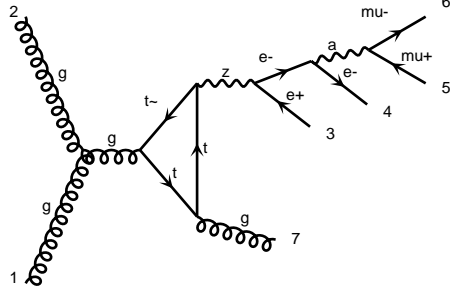


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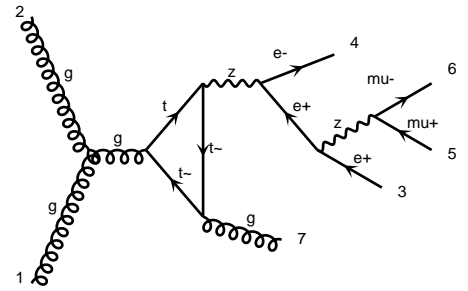


diagram 711 QCD=3, QED=4

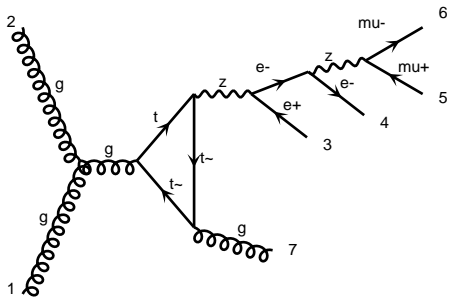


diagram 712 QCD=3, QED=4

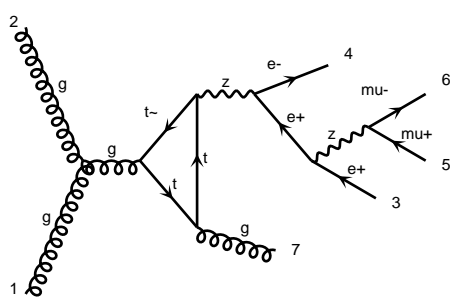


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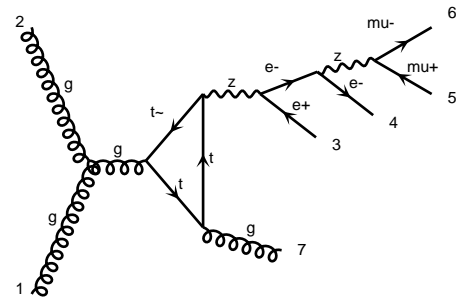


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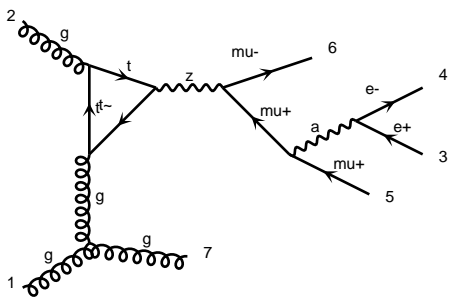


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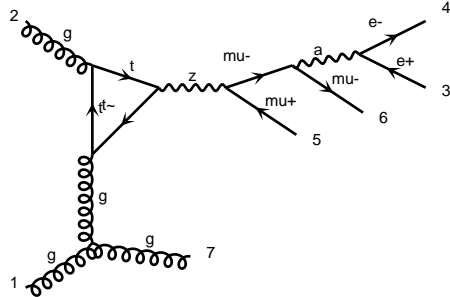


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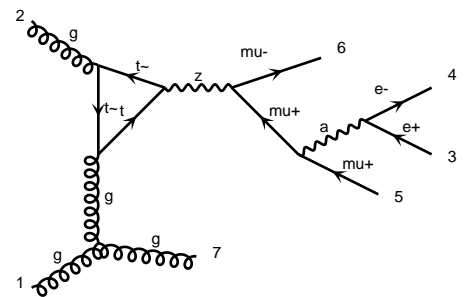


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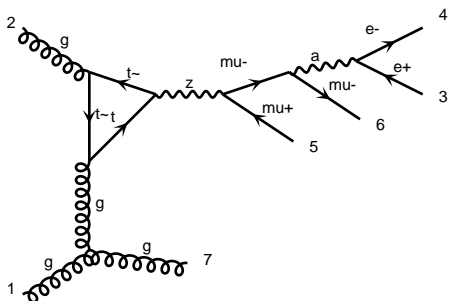


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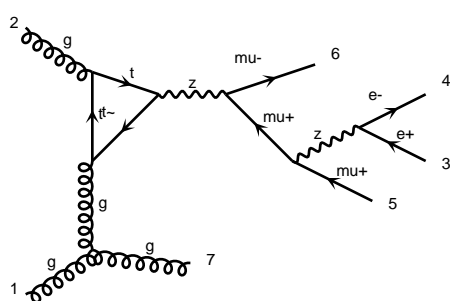


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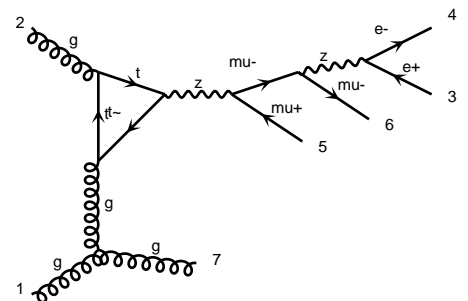


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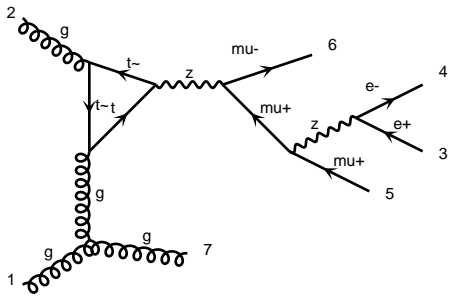


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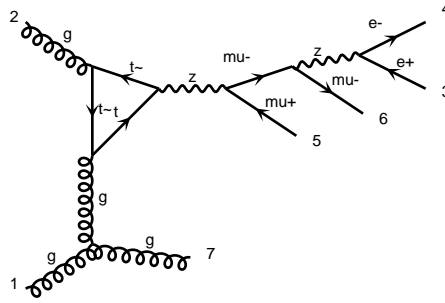


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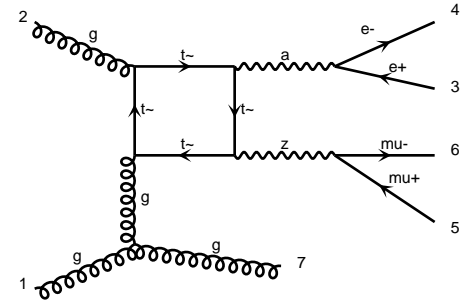


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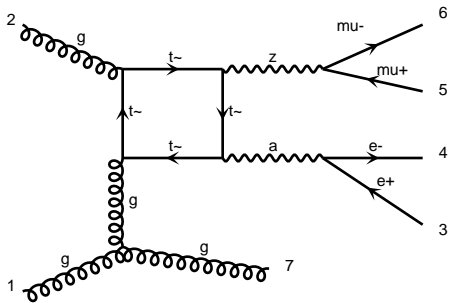


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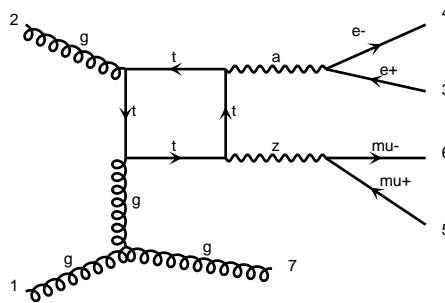


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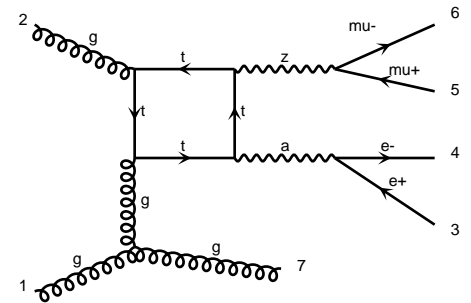


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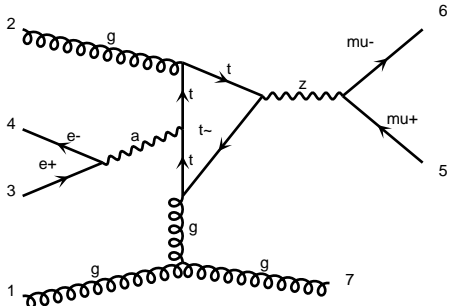


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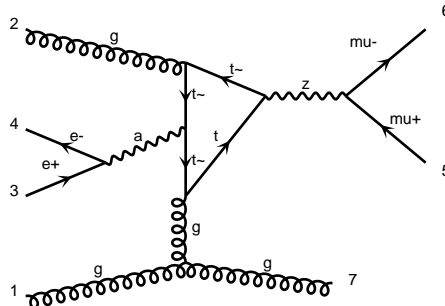


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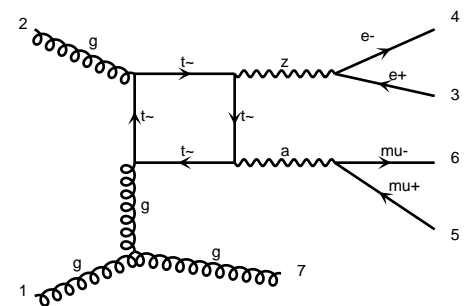


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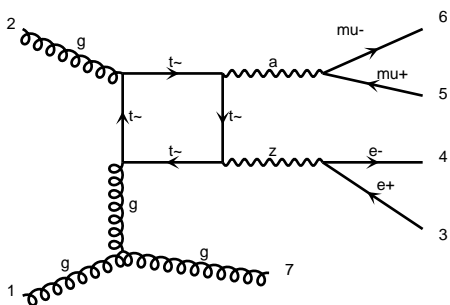


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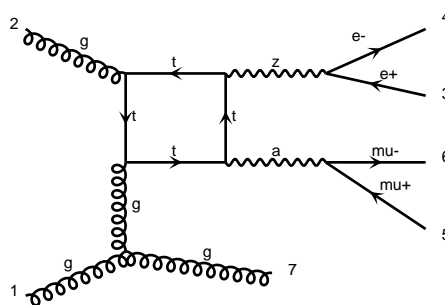


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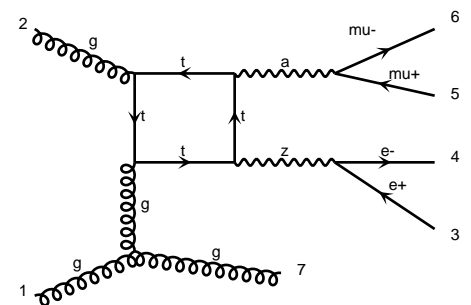


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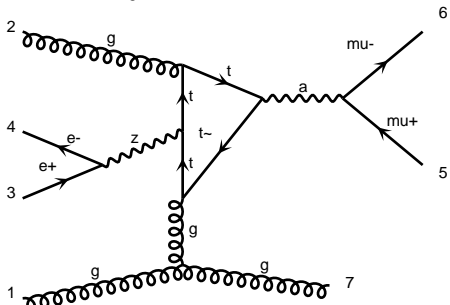


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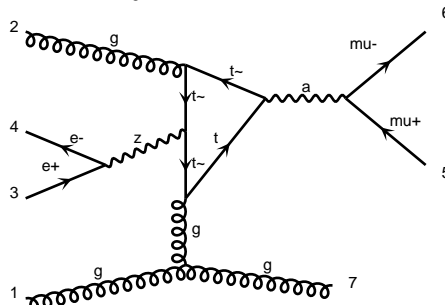


diagram 734 QCD=3, QED=4

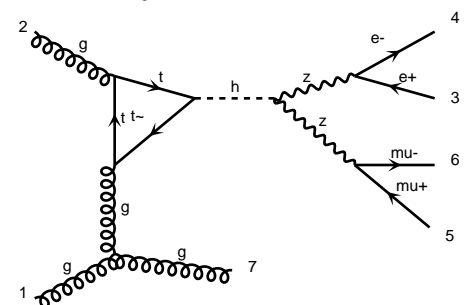


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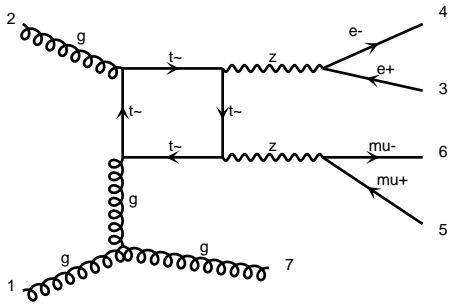


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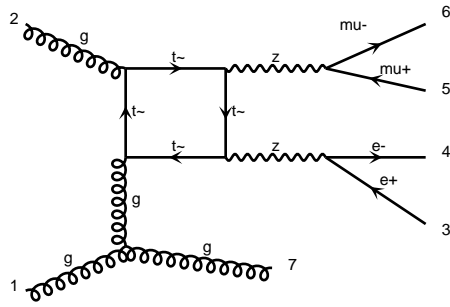


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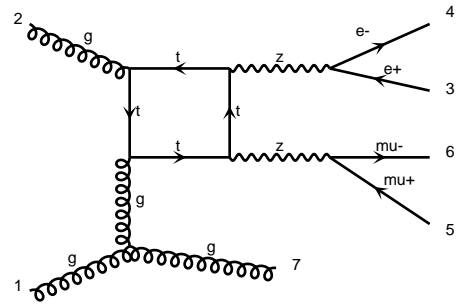


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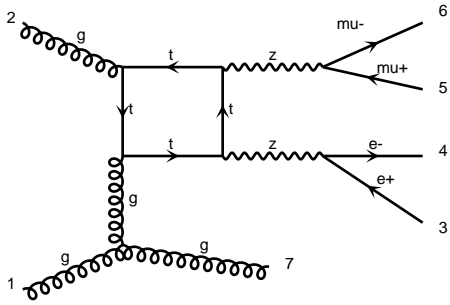


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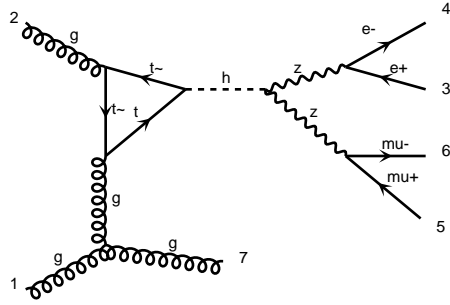


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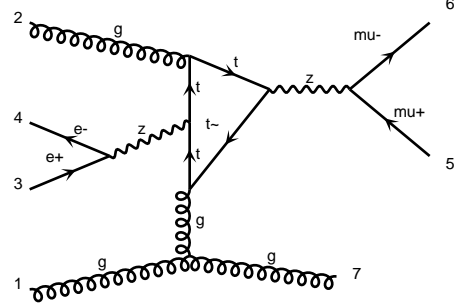


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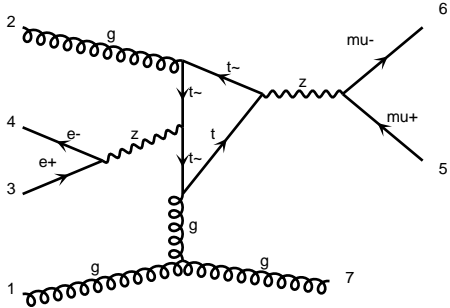


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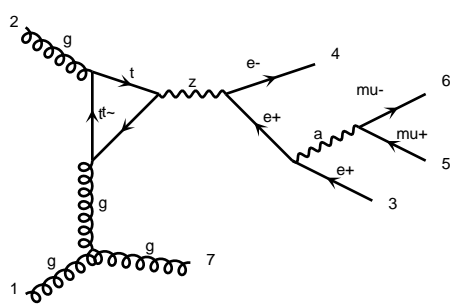


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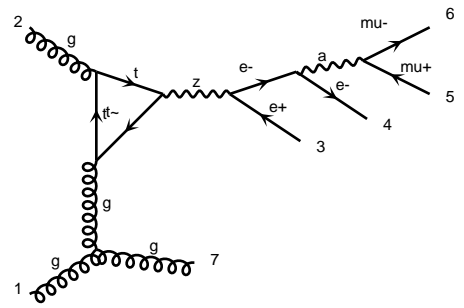


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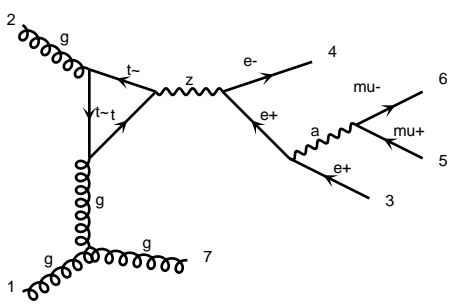


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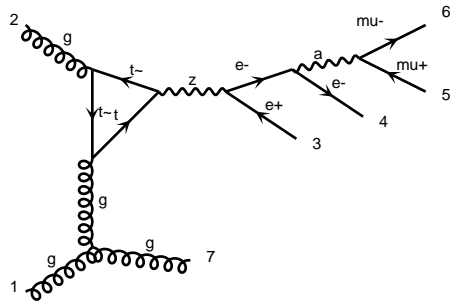


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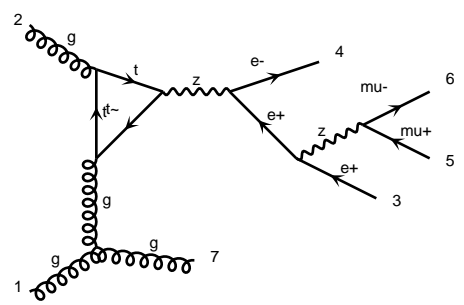


diagram 747 QCD=3, QED=4

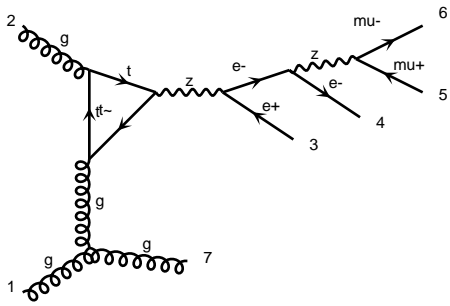


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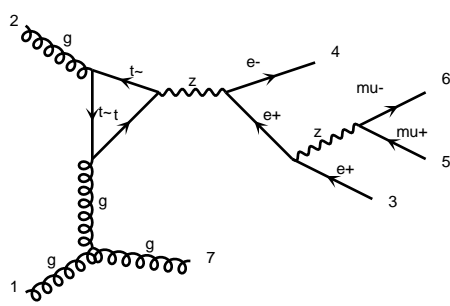


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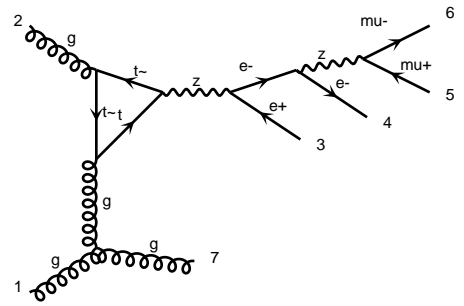


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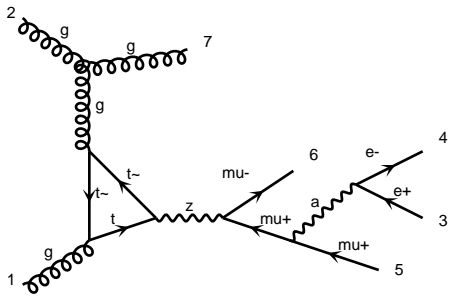


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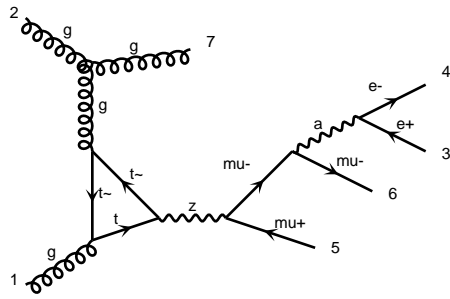


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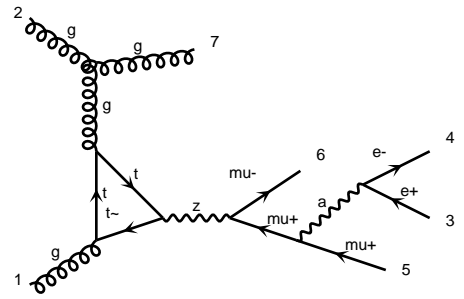


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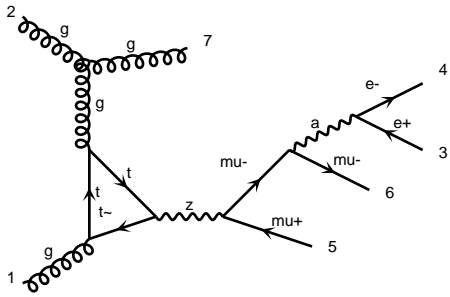


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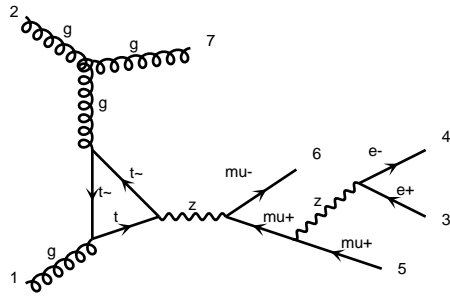


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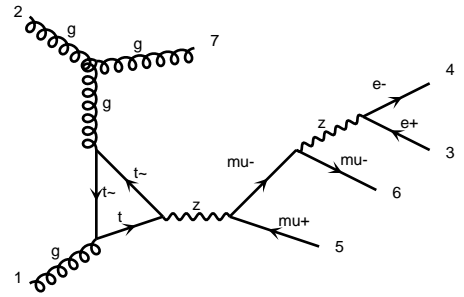


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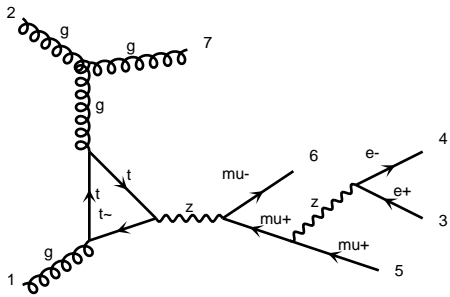


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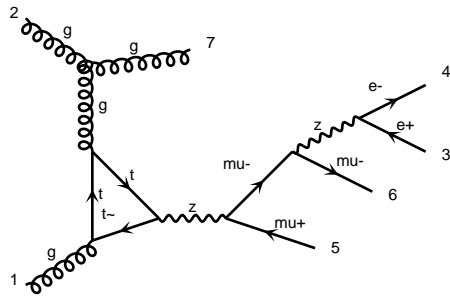


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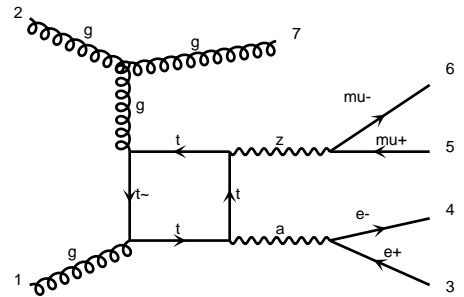


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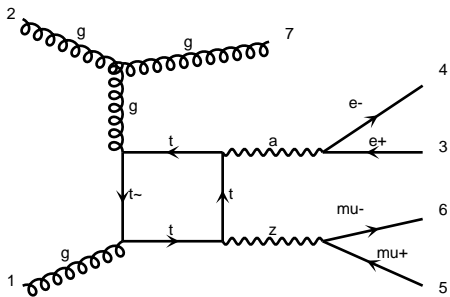


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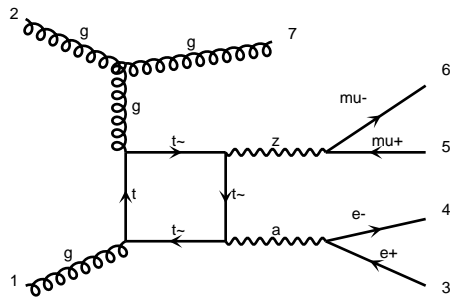


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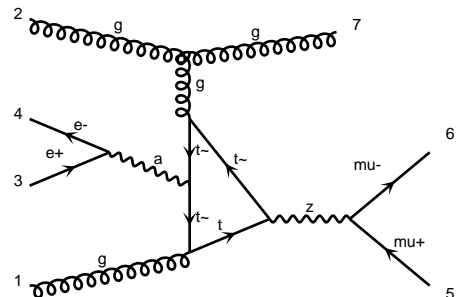


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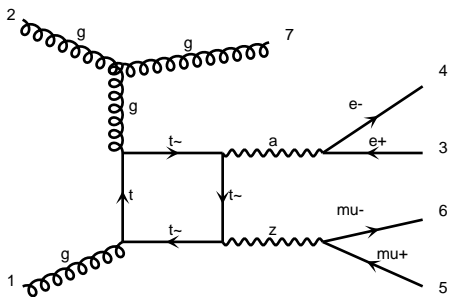


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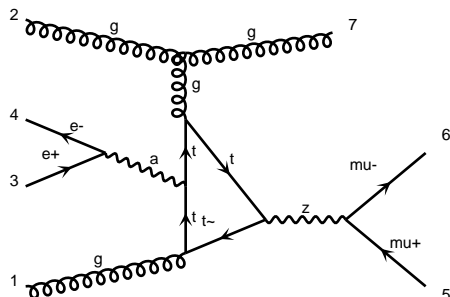


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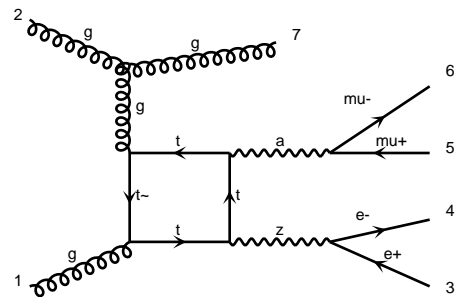


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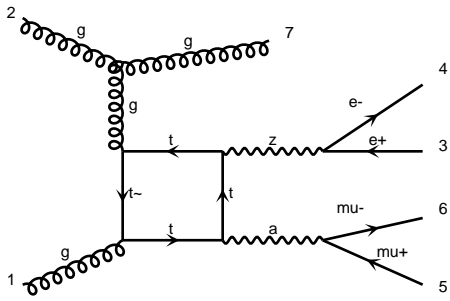


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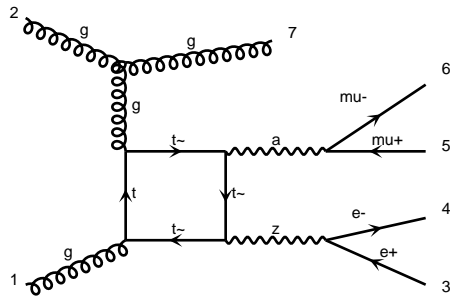


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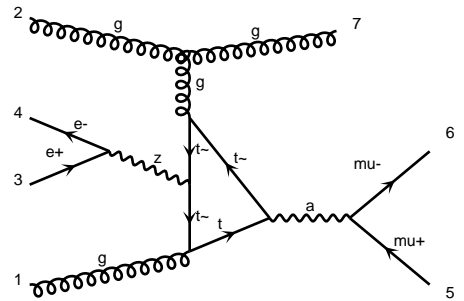


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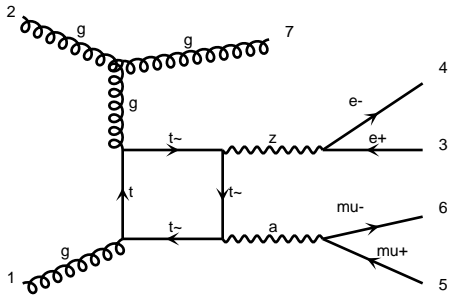


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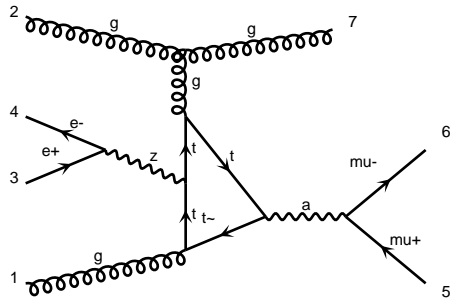


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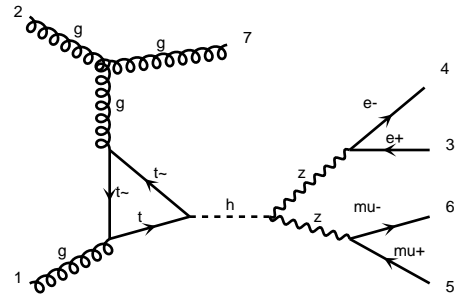


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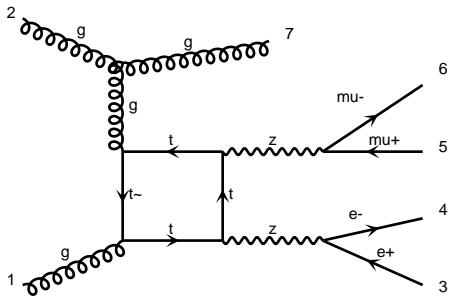


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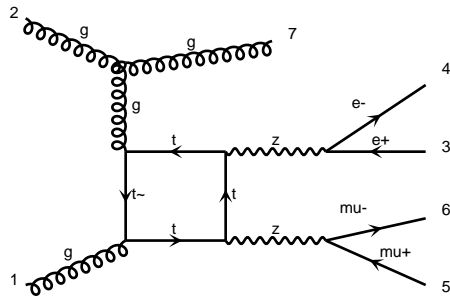


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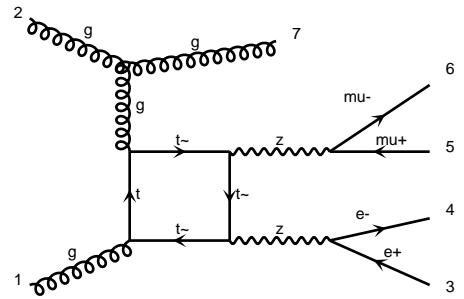


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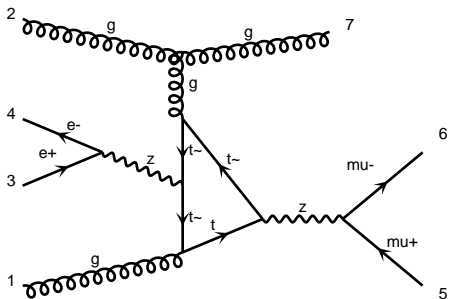


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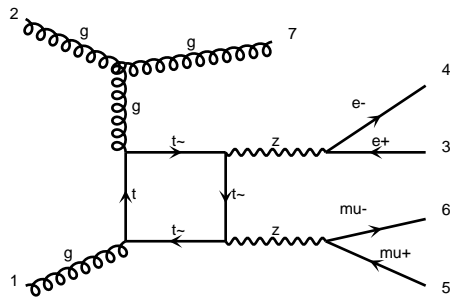


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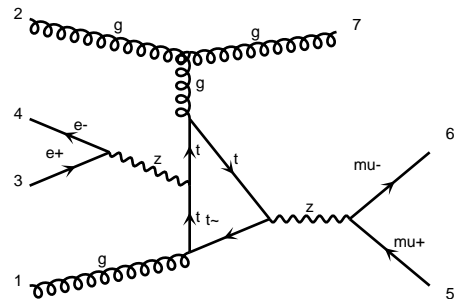


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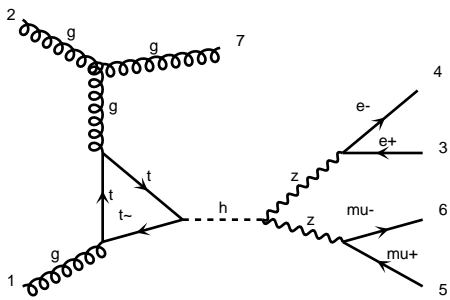


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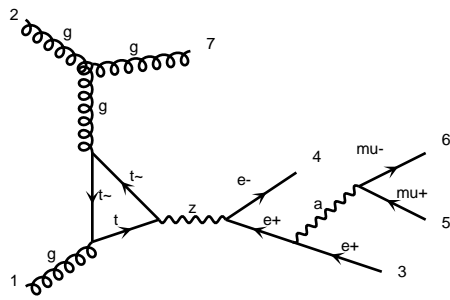


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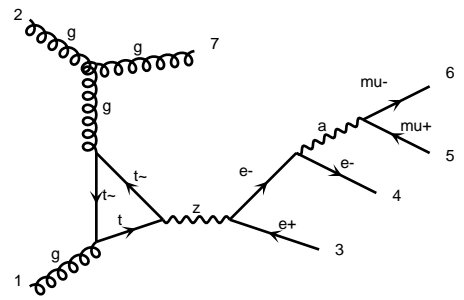


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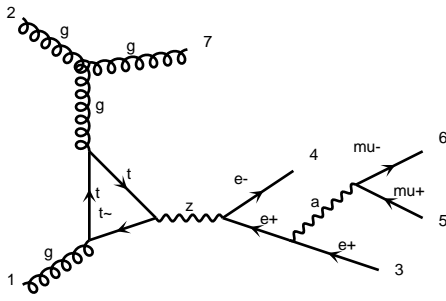


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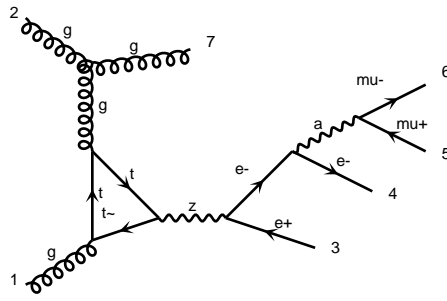


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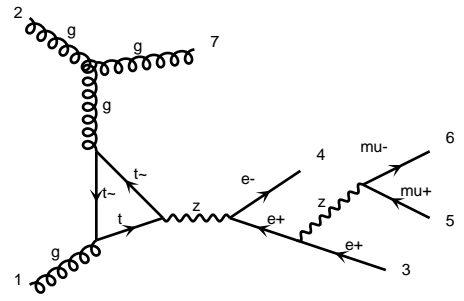


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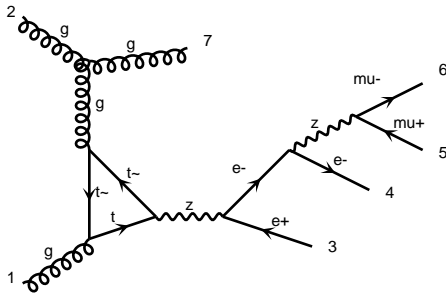


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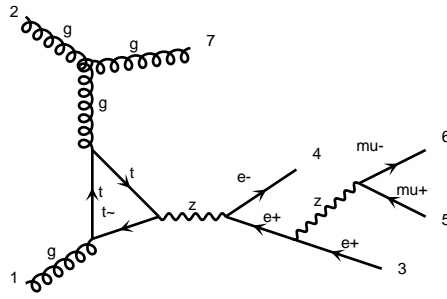


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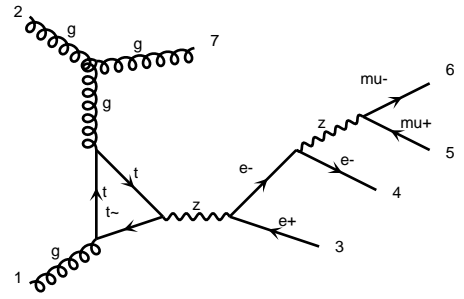


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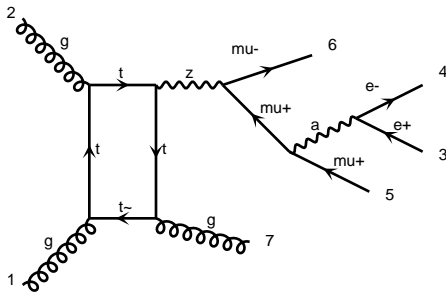


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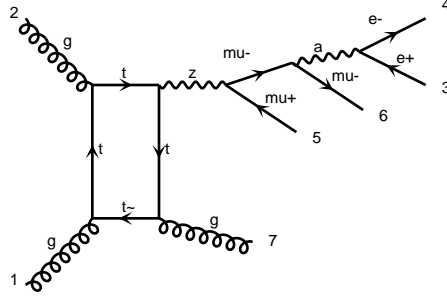


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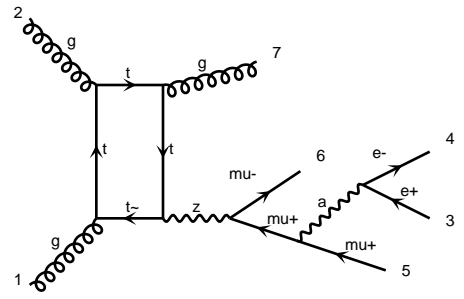


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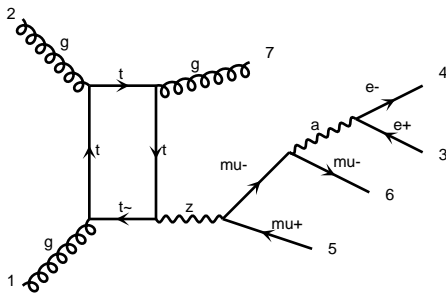


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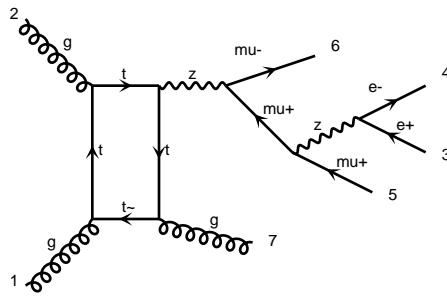


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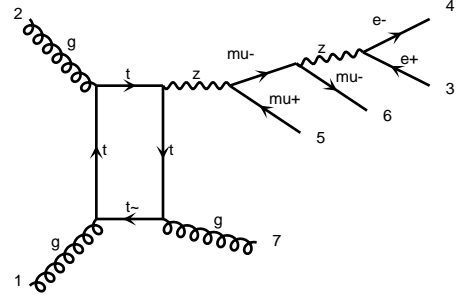


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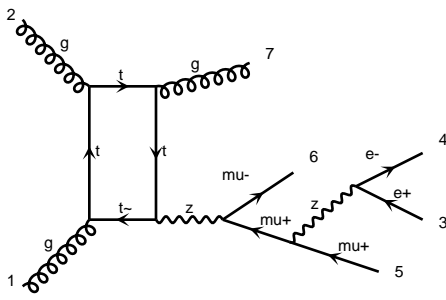


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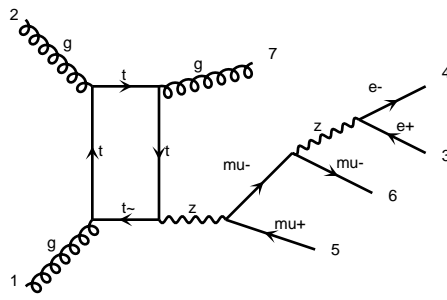


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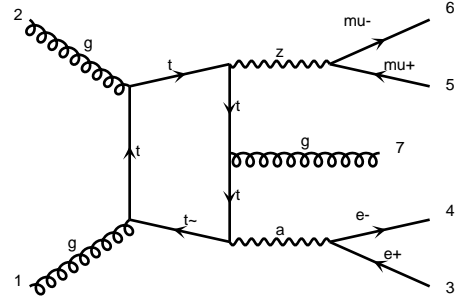


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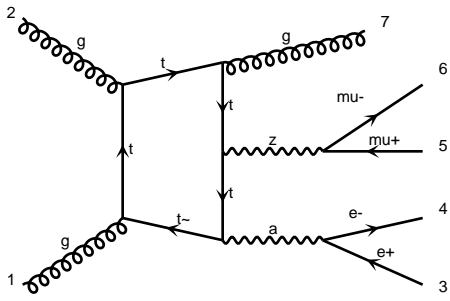


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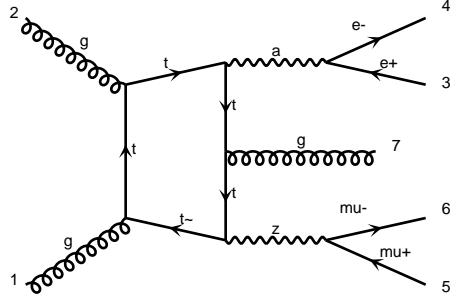


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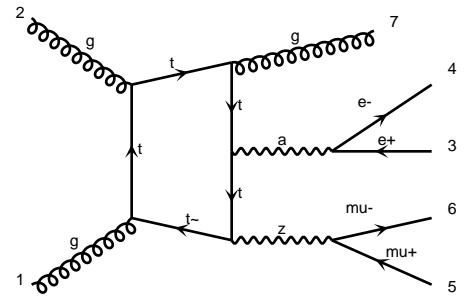


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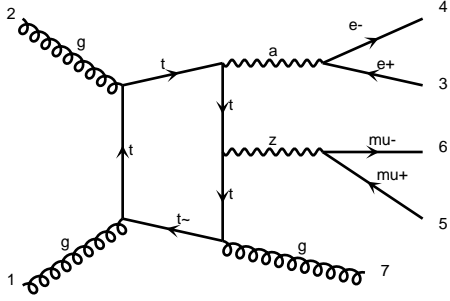


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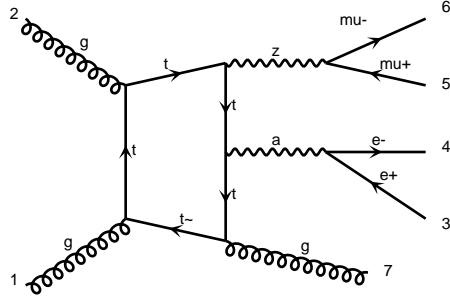


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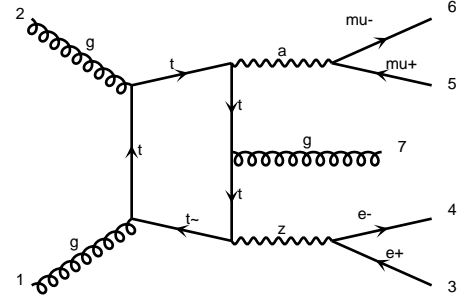


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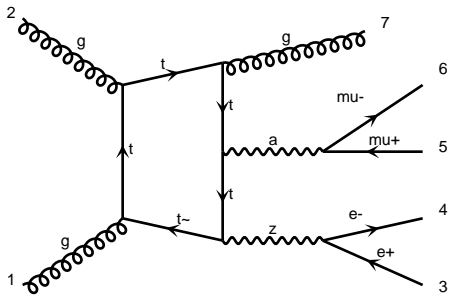


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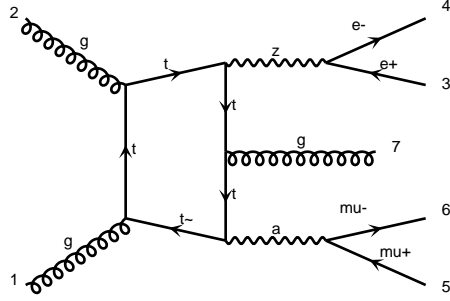


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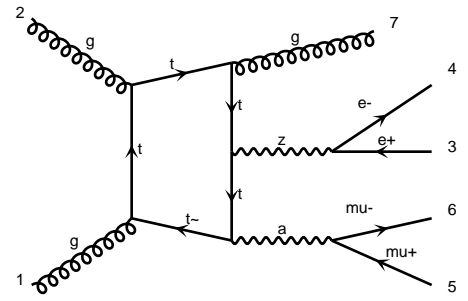


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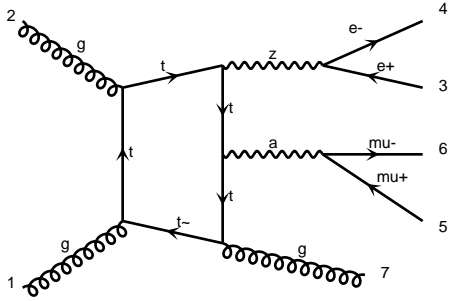


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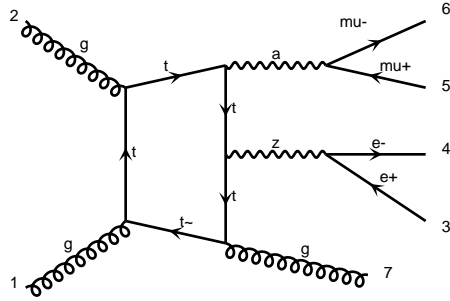


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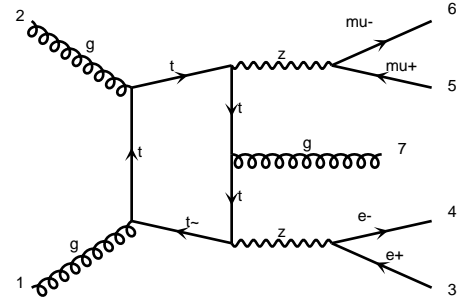


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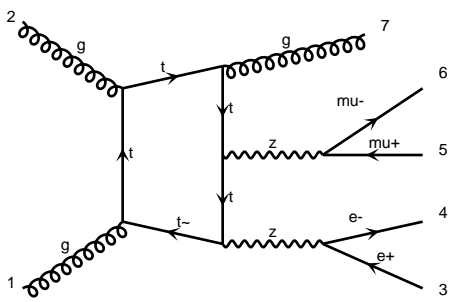


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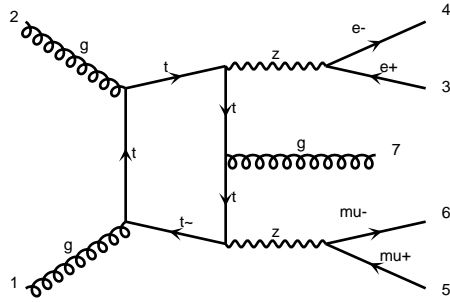


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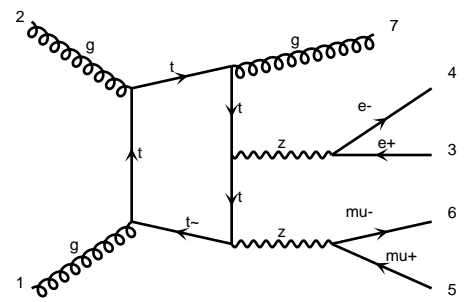


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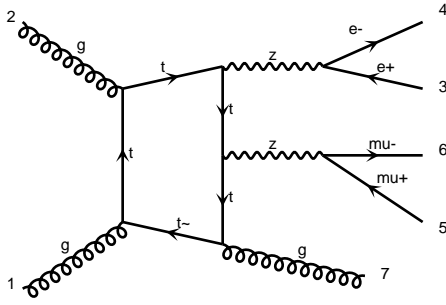


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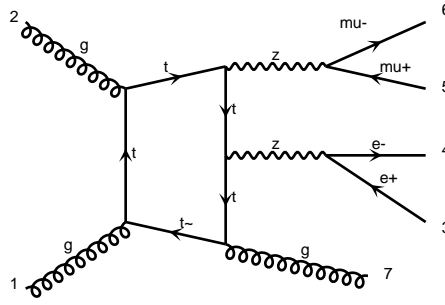


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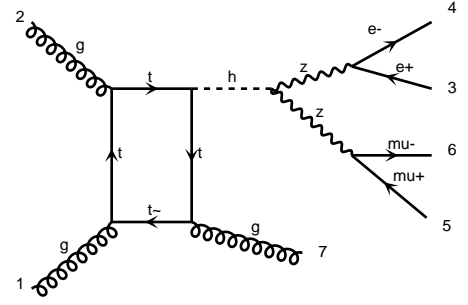


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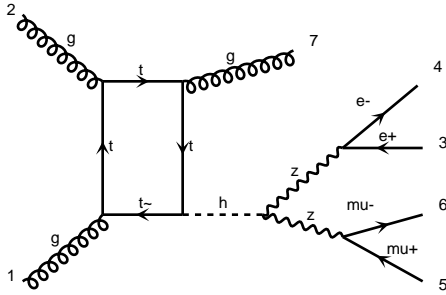


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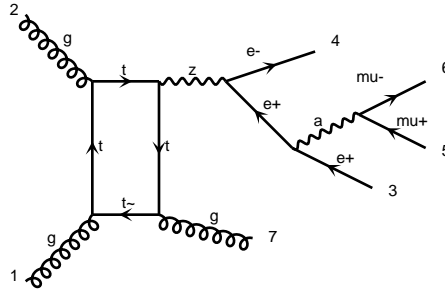


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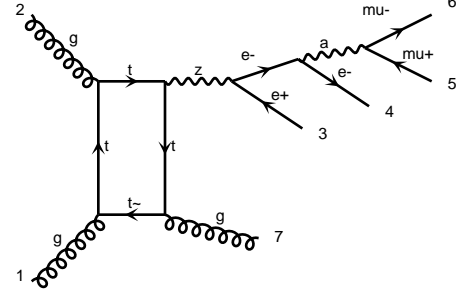


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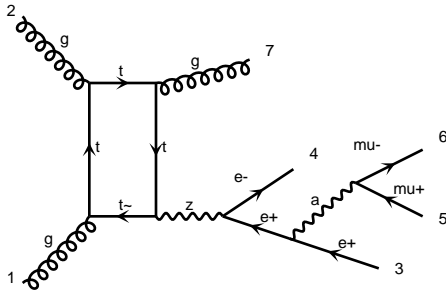


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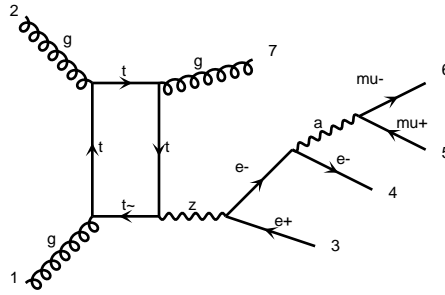


diagram 818 QCD=3, QED=4

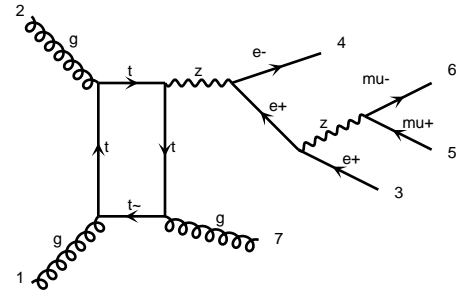


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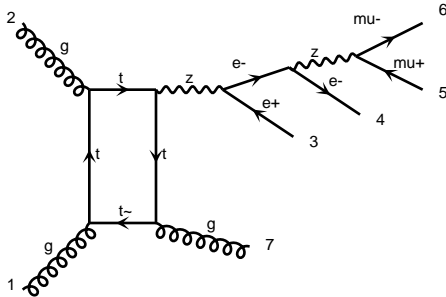


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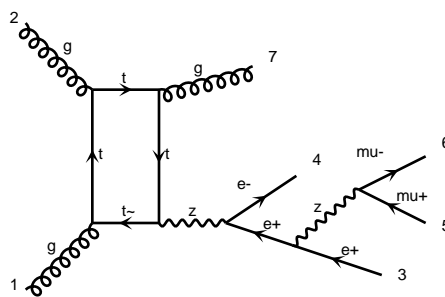


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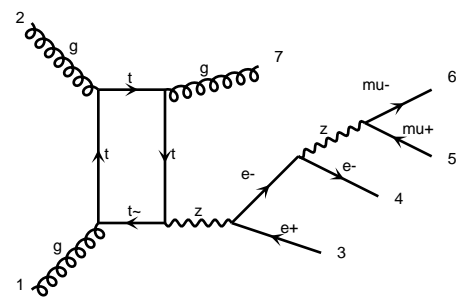


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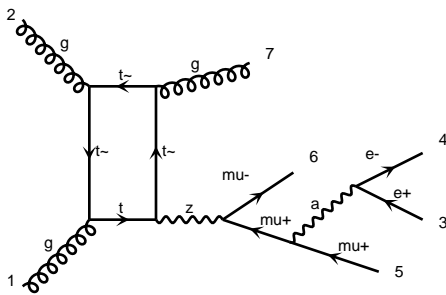


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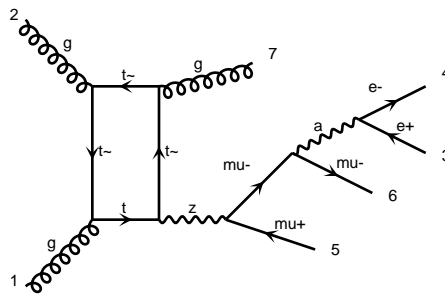


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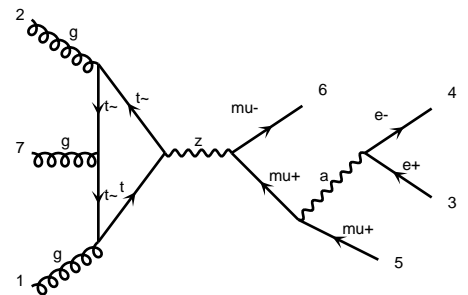


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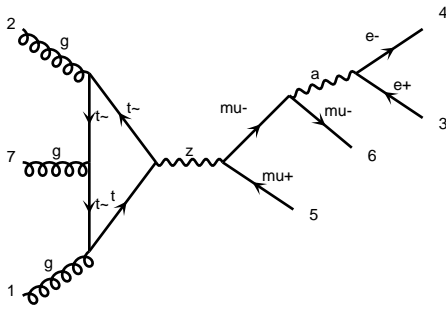


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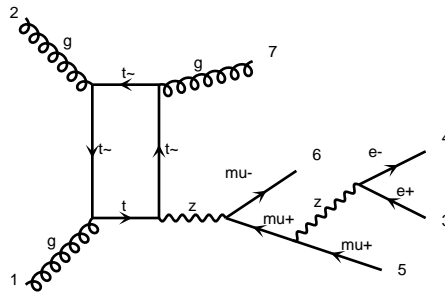


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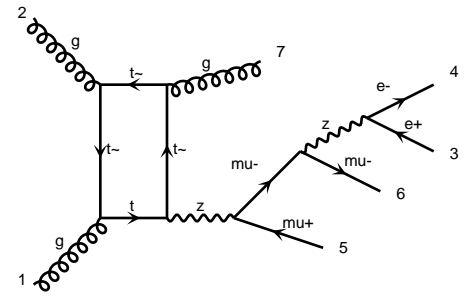


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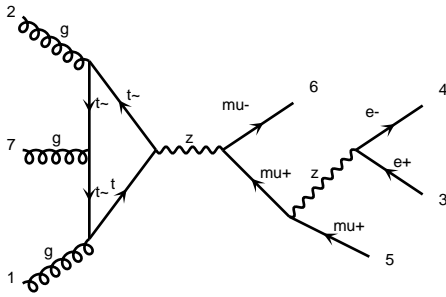


diagram 829 QCD=3, QED=4

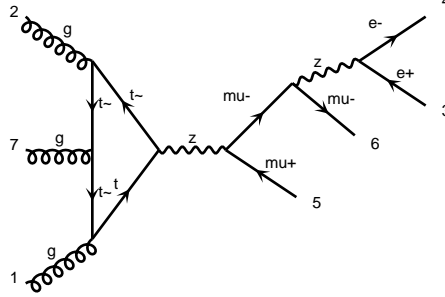


diagram 830 QCD=3, QED=4

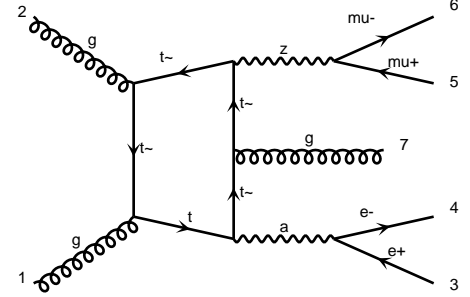


diagram 831 QCD=3, QED=4

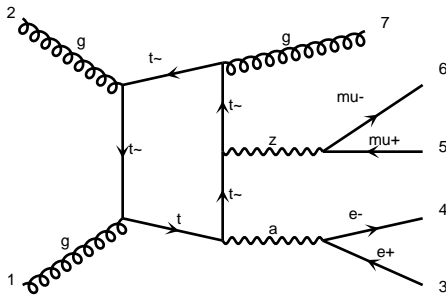


diagram 832 QCD=3, QED=4

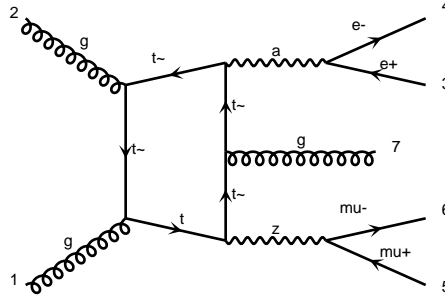


diagram 833 QCD=3, QED=4

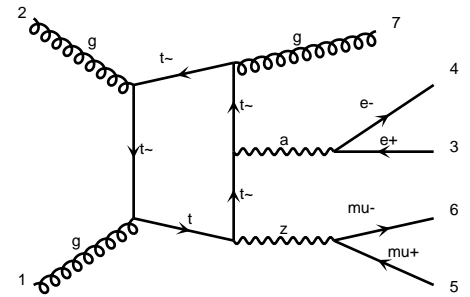


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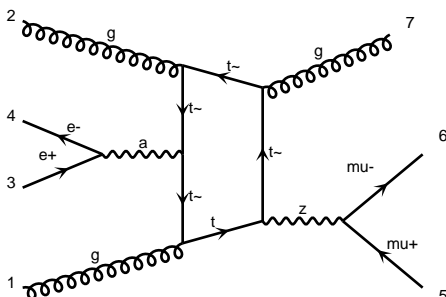


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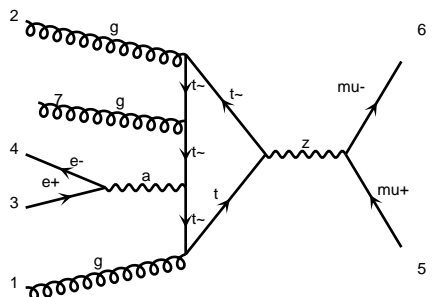


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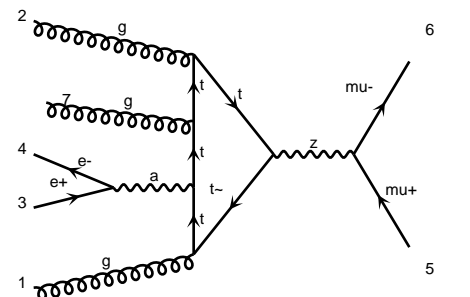


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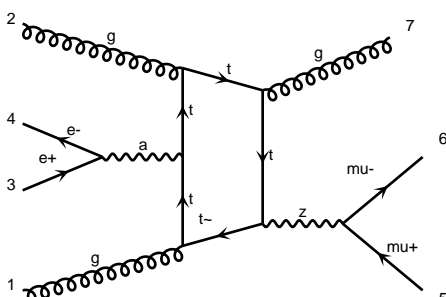


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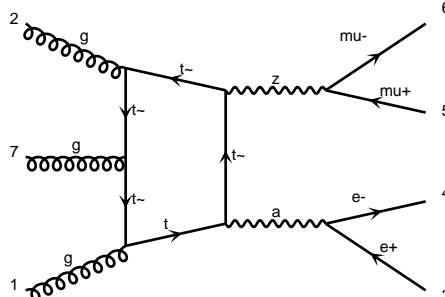


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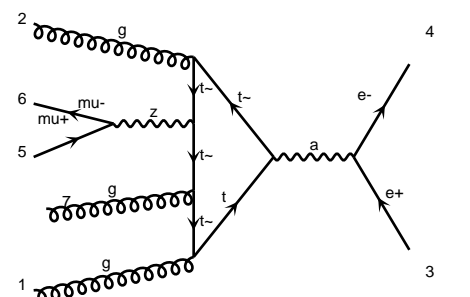


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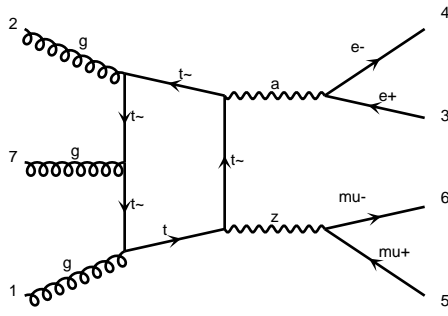


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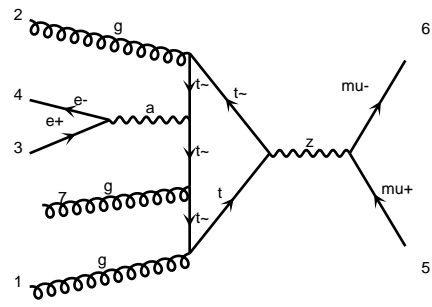


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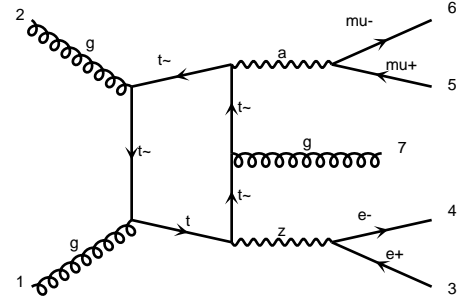


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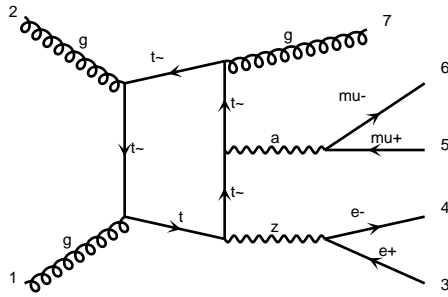


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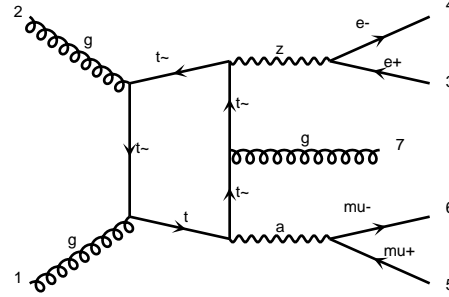


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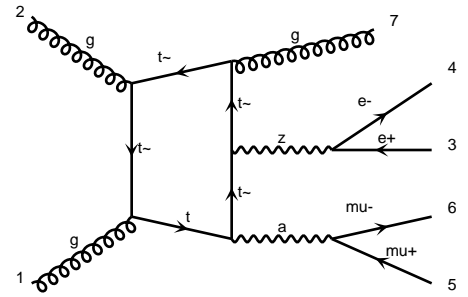


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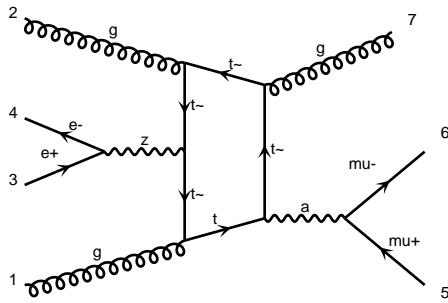


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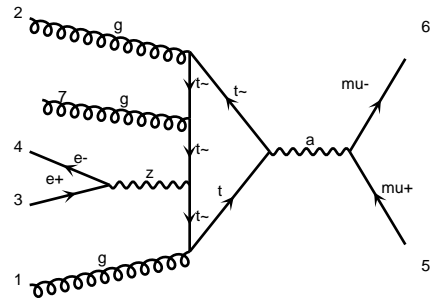


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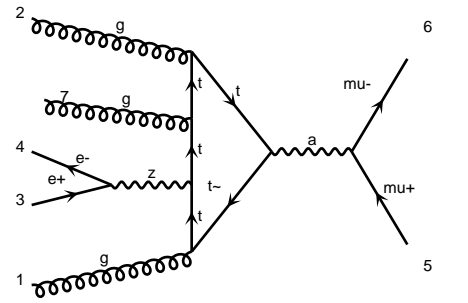


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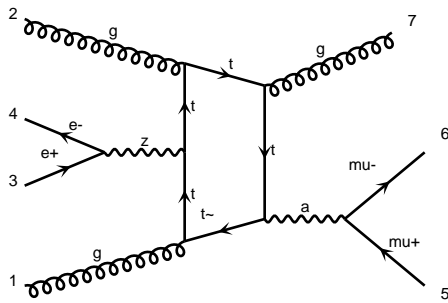


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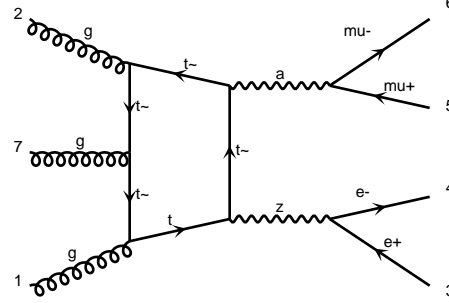


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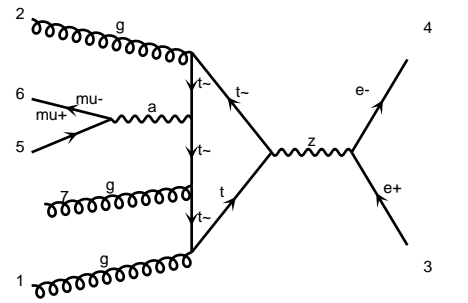


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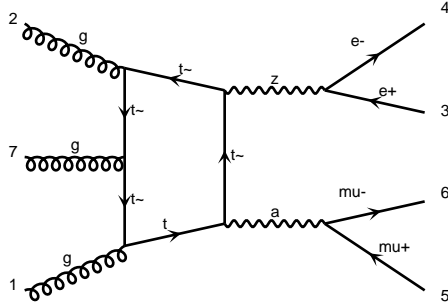


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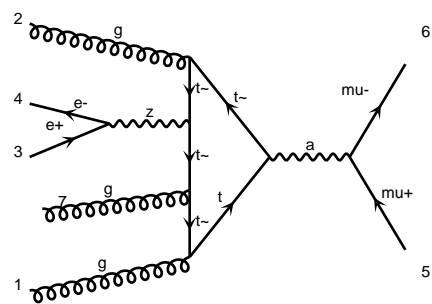


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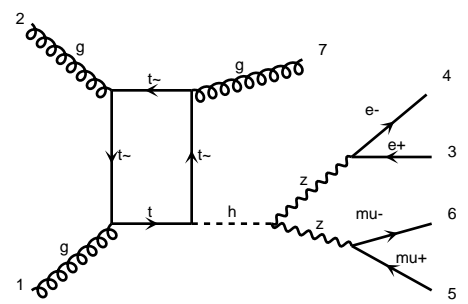


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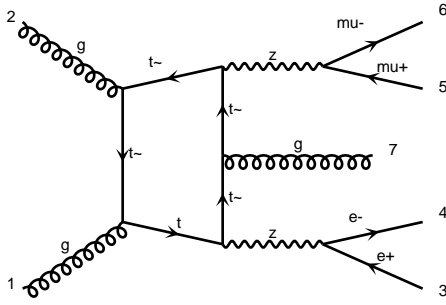


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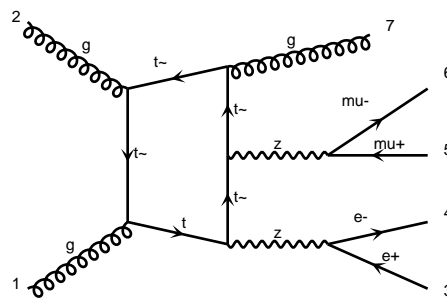


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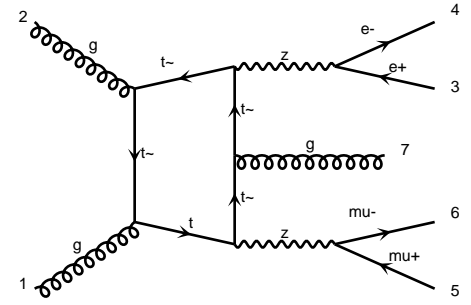


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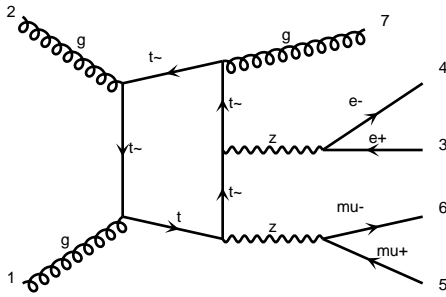


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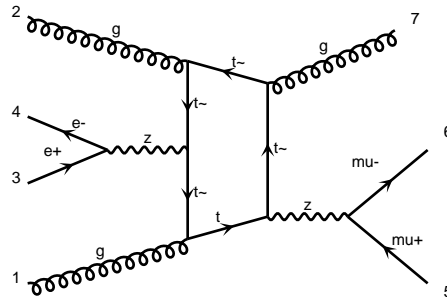


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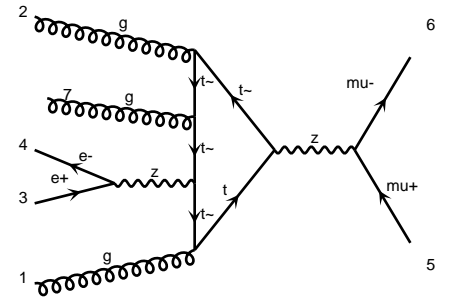


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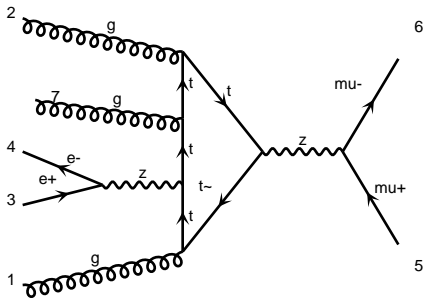


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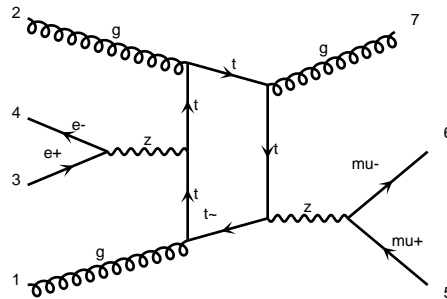


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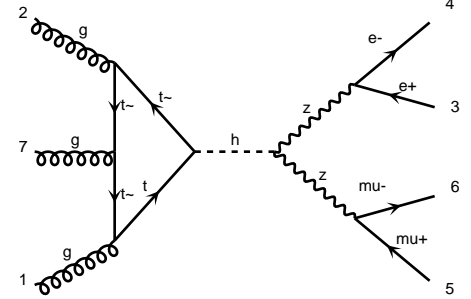


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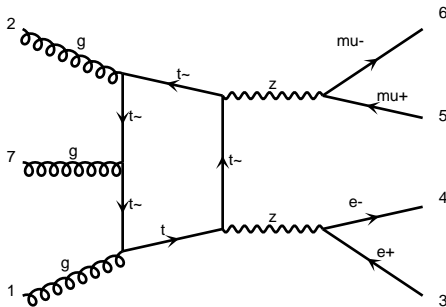


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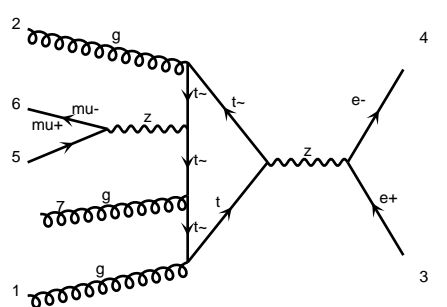


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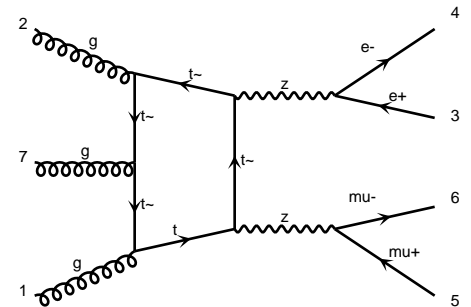


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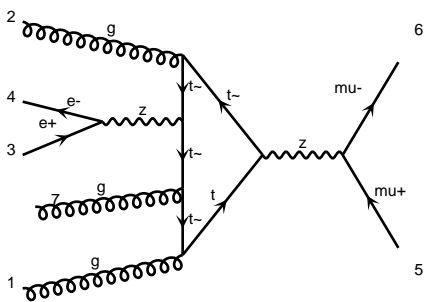


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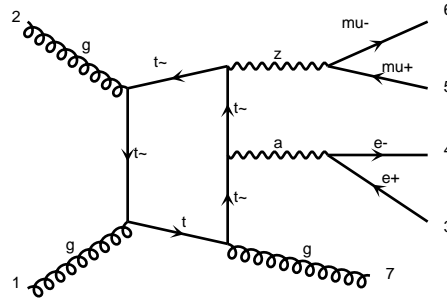


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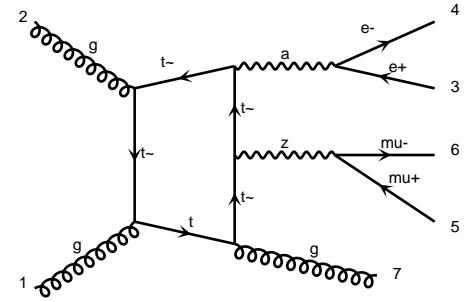


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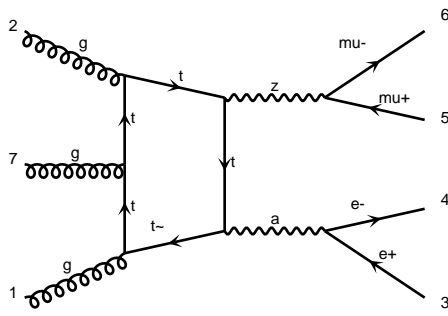


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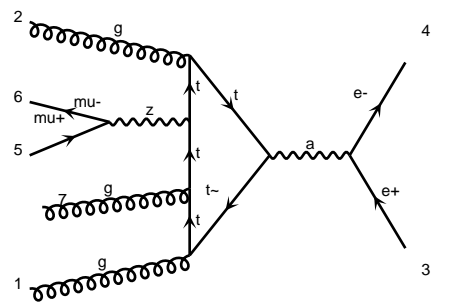


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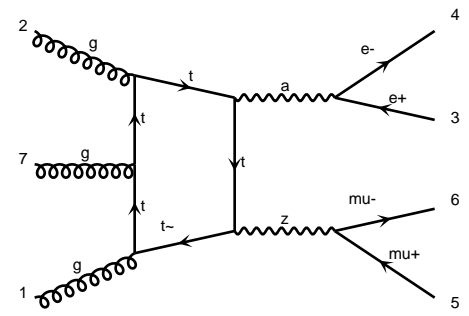


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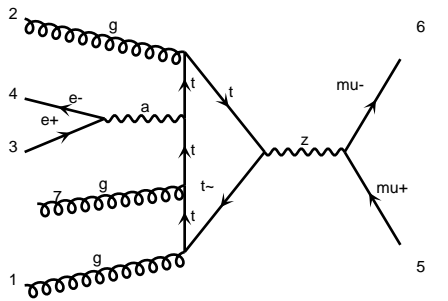


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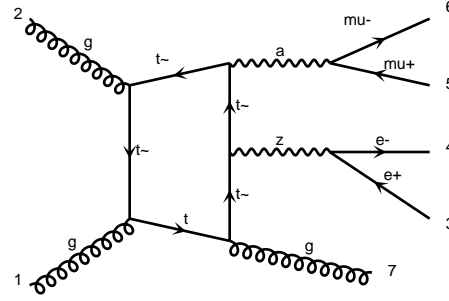


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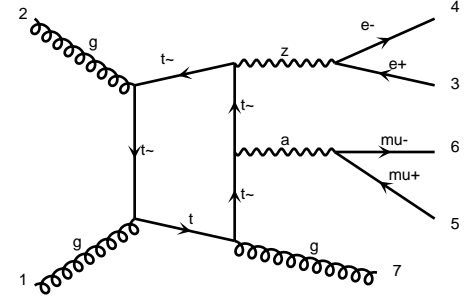


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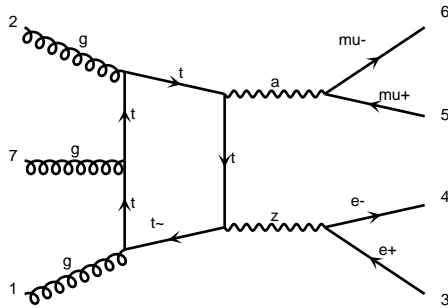


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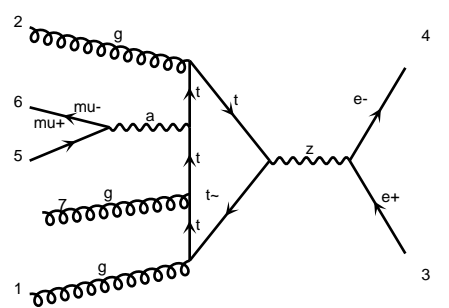


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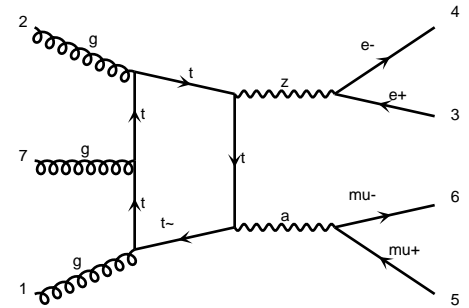


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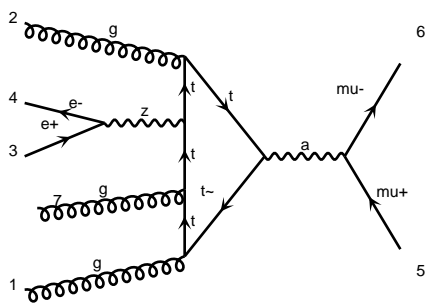


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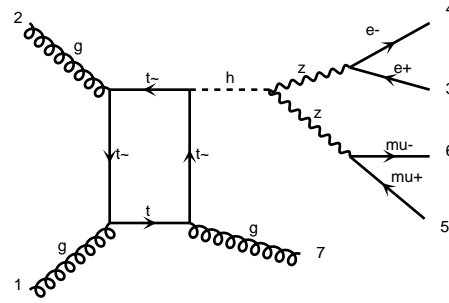


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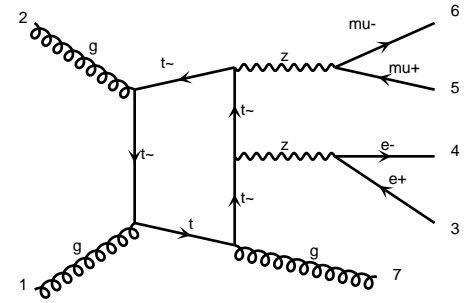


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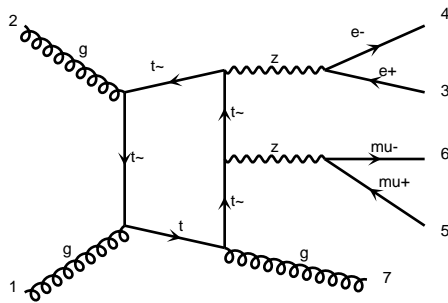


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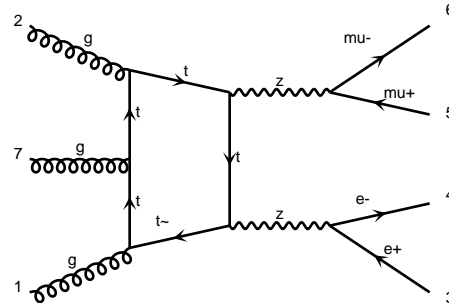


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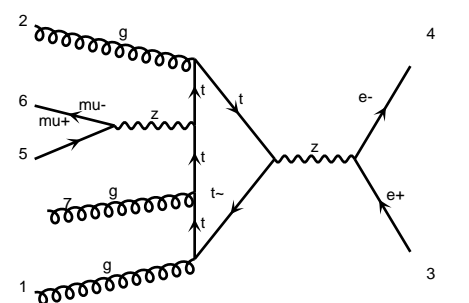


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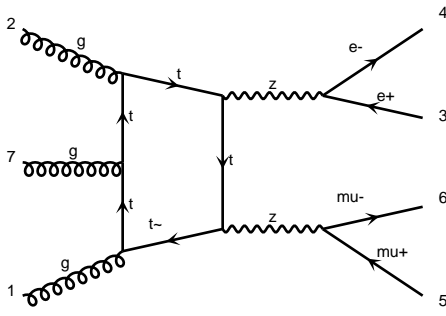


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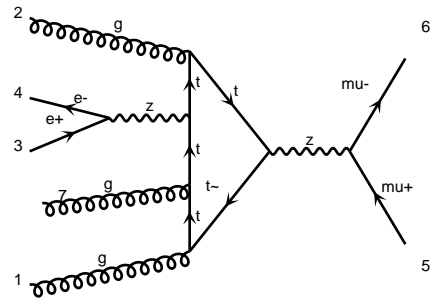


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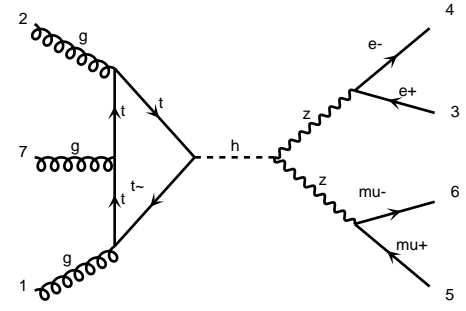


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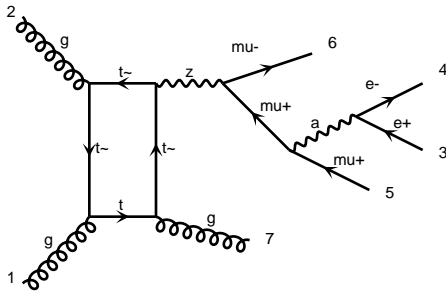


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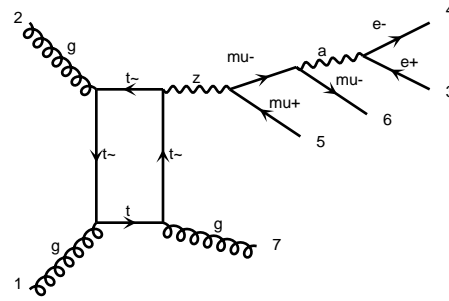


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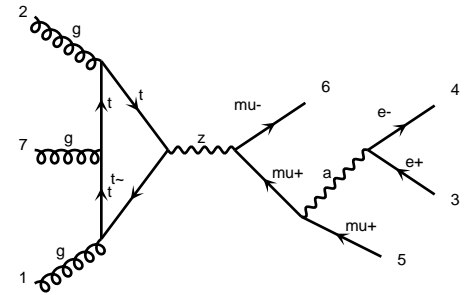


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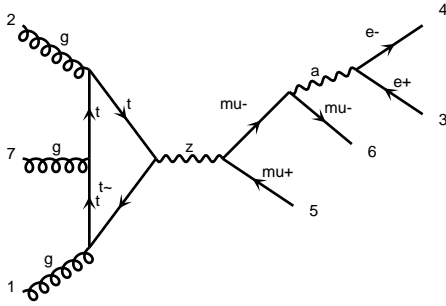


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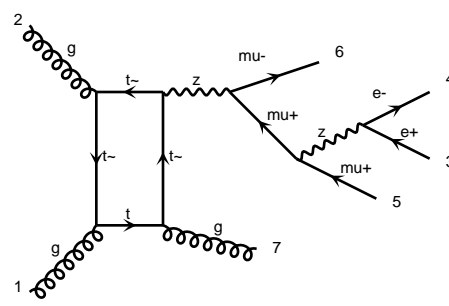


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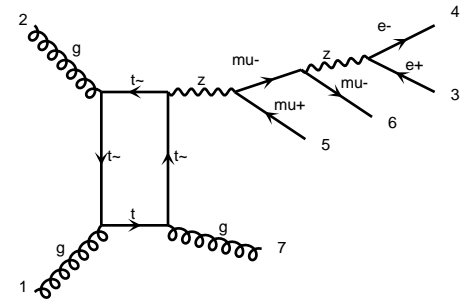


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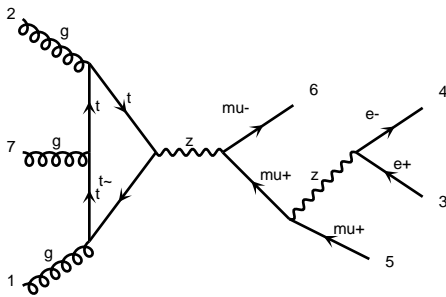


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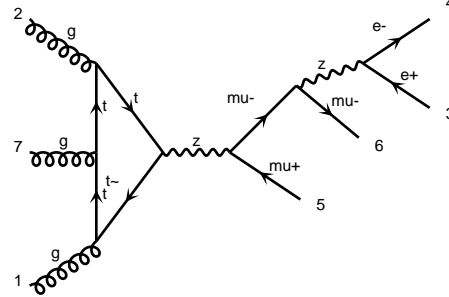


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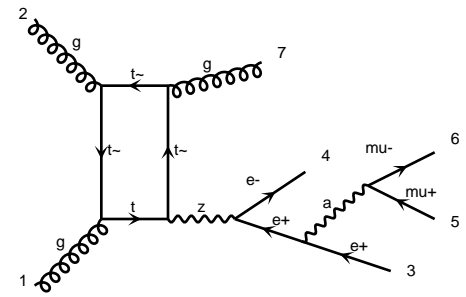


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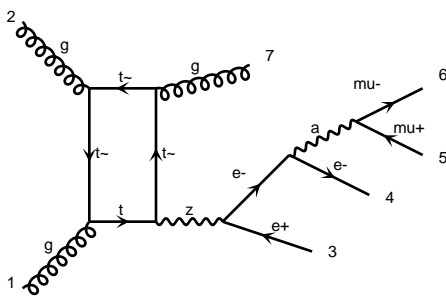


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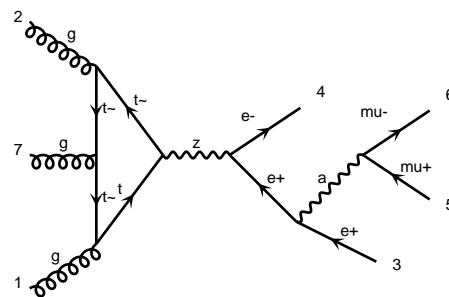


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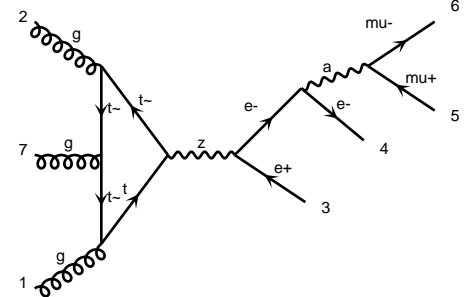


diagram 900 QCD=3, QED=4

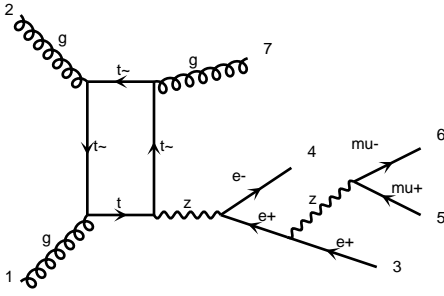


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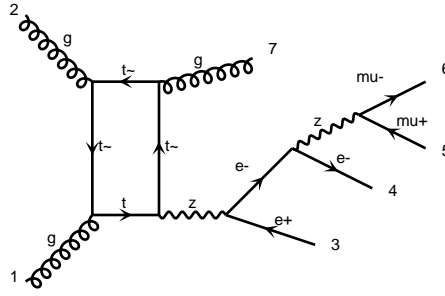


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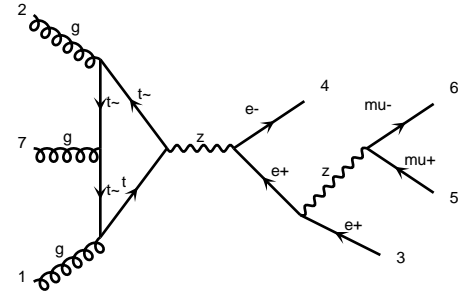


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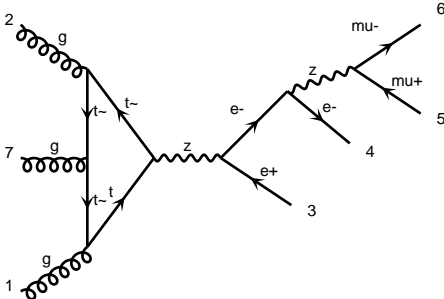


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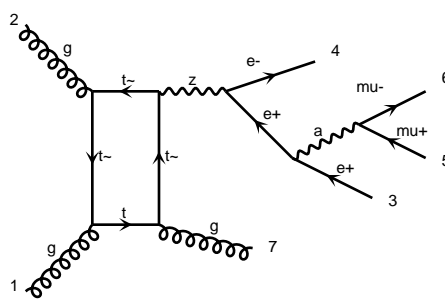


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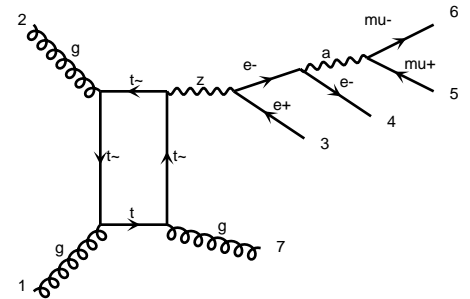


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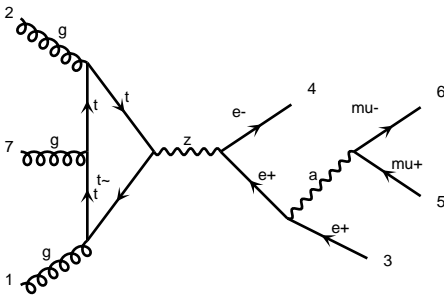


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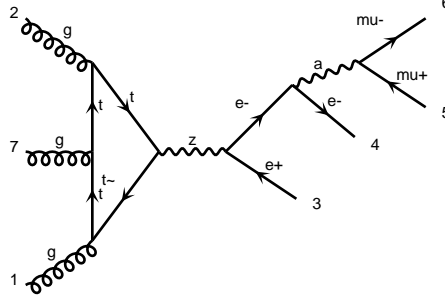


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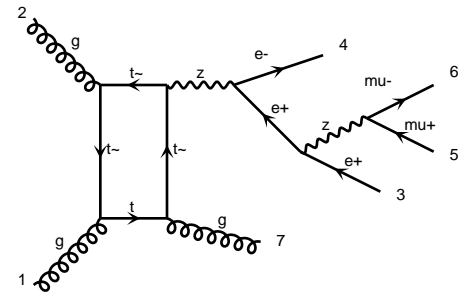


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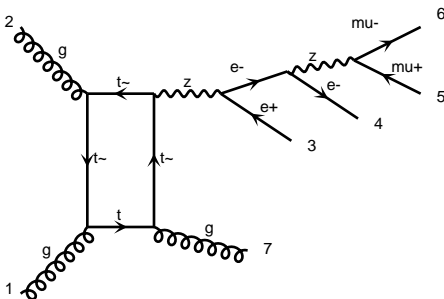


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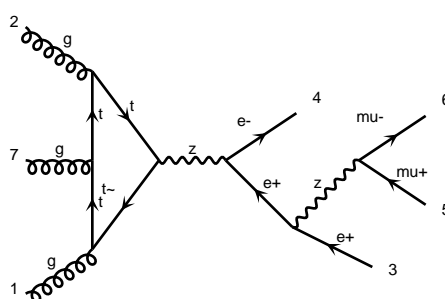


diagram 911 QCD=3, QED=4

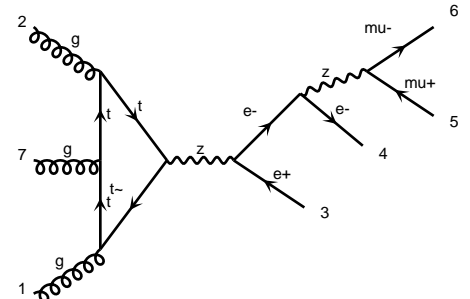


diagram 912 QCD=3, QED=4