

**embedding 1**  $[1, -1, -1, -2]$

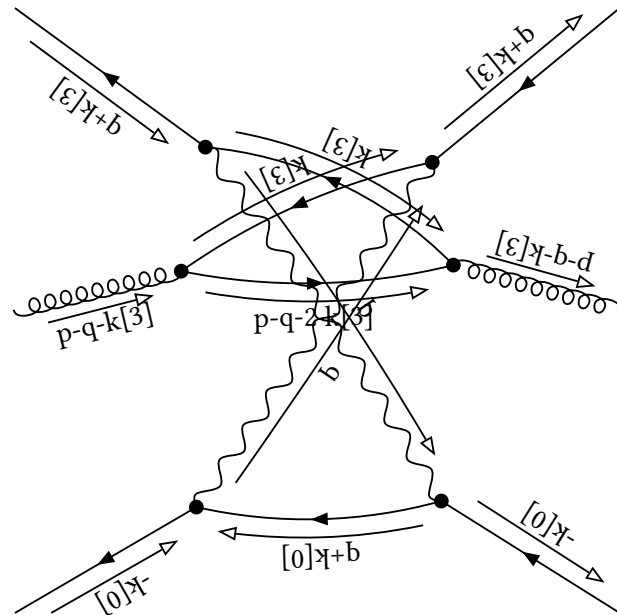
**initial**

Denominator:

$$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q-k[3]]^{-1} \text{prop}[0,p-q-2k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & -1/2 (1/2 \text{ dot}[p,p] - \text{dot}[p,q] + 1/2 \text{ dot}[q,q])^{-2} \text{prop}[0,k[3]]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q-k[3]]^{-1} \\ & + (1/2 \text{ dot}[p,p] - \text{dot}[p,q] + 1/2 \text{ dot}[q,q])^{-2} \text{prop}[0,k[3]]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q-2 k[3]]^{-1} \\ & + (1/2 \text{ dot}[p,p] - \text{dot}[p,q] + 1/2 \text{ dot}[q,q])^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q-k[3]]^{-1} \text{prop}[0,p-q-2 k[3]]^{-1} \\ & - 1/2 (1/2 \text{ dot}[p,p] - \text{dot}[p,q] + 1/2 \text{ dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q-k[3]]^{-1} \\ & + (1/2 \text{ dot}[p,p] - \text{dot}[p,q] + 1/2 \text{ dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q-2 k[3]]^{-1} \end{aligned}$$



$$-3+10+16$$

**final**

Denominator:

0

embedding 2 [1, -1, -1, -1]

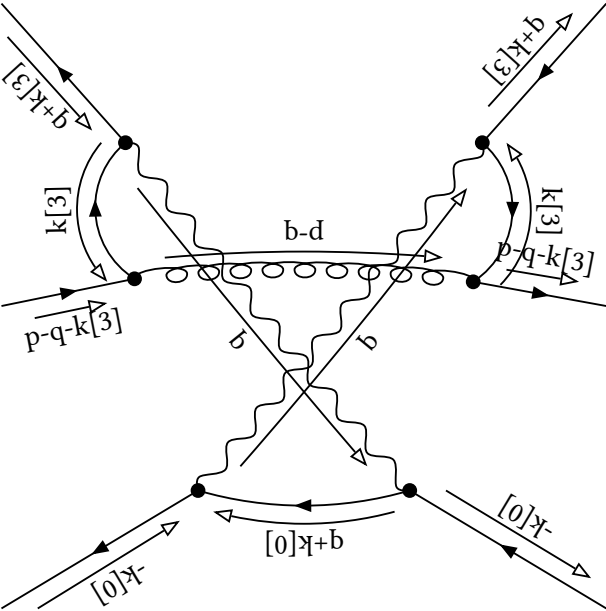
initial

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q]^{-1} \text{prop}[0,p-q-k[3]]^{-1}$

Partial Fractioned Denominator:

$(\text{dot}[p,p]-2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q-k[3]]^{-1}$



**final**

Denominator:

0

**embedding 3 [1, -1, 0, -1]**

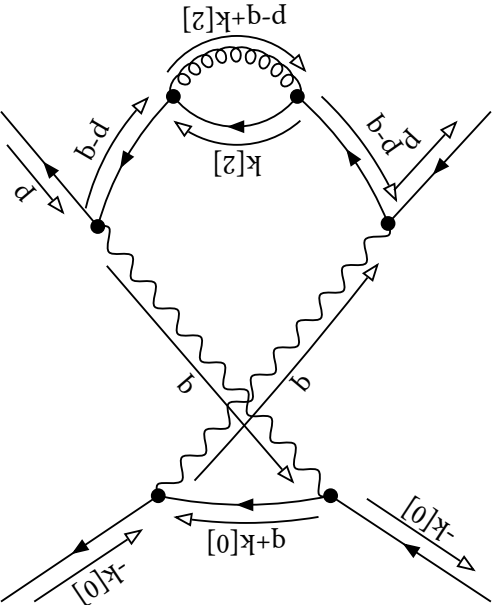
**initial**

Denominator:

$\text{prop}[\theta,p]^{-1} \text{prop}[\theta,k[2]]^{-1} \text{prop}[\theta,p-q]^{-2} \text{prop}[\theta,p-q+k[2]]^{-1}$

Partial Fractioned Denominator:

$(\text{dot}[p,p]-2 \text{dot}[p,q]+\text{dot}[q,q])^{-2} \text{prop}[\theta,k[2]]^{-1} \text{prop}[\theta,p-q+k[2]]^{-1} \text{dot}[p,p]^{-1}$



**final**

Denominator:

0

## embedding 4 [1, -1, 1, -1]

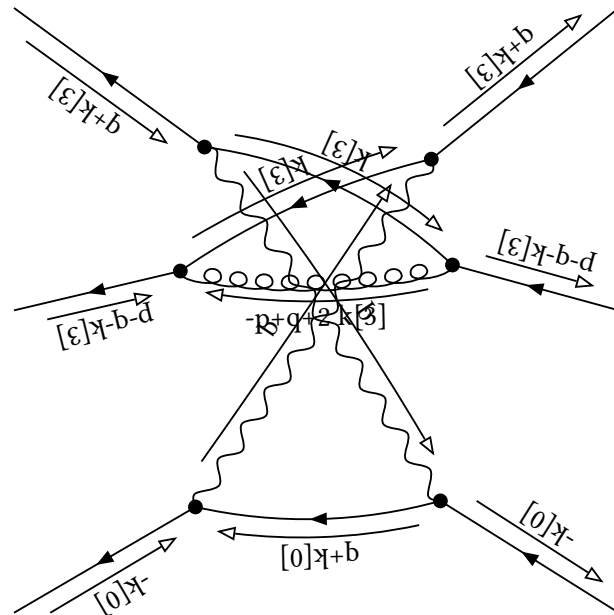
### initial

Denominator:

$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+q+k[3]]^{-1} \text{prop}[0, -p+q+2 k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & -1/2 (1/2 \text{dot}[p, p] - \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+q+k[3]]^{-1} \\ & + (1/2 \text{dot}[p, p] - \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+q+2 k[3]]^{-1} \\ & + (1/2 \text{dot}[p, p] - \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+q+k[3]]^{-1} \text{prop}[0, -p+q+2 k[3]]^{-1} \\ & - 1/2 (1/2 \text{dot}[p, p] - \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-1} \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+q+k[3]]^{-1} \\ & + (1/2 \text{dot}[p, p] - \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-1} \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+q+2 k[3]]^{-1} \end{aligned}$$



**final**

Denominator:

0



embedding 5 [1, -1, 1, 0]

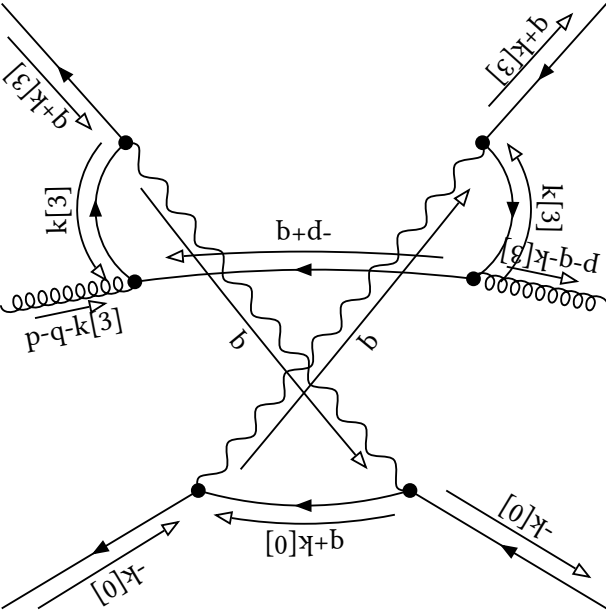
initial

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p+q]^{-1} \text{prop}[0,-p+q+k[3]]^{-1}$

Partial Fractioned Denominator:

$(\text{dot}[p,p]-2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p+q+k[3]]^{-1}$



**final**

Denominator:

0

**embedding 6**  $[1, 0, -2, -1]$

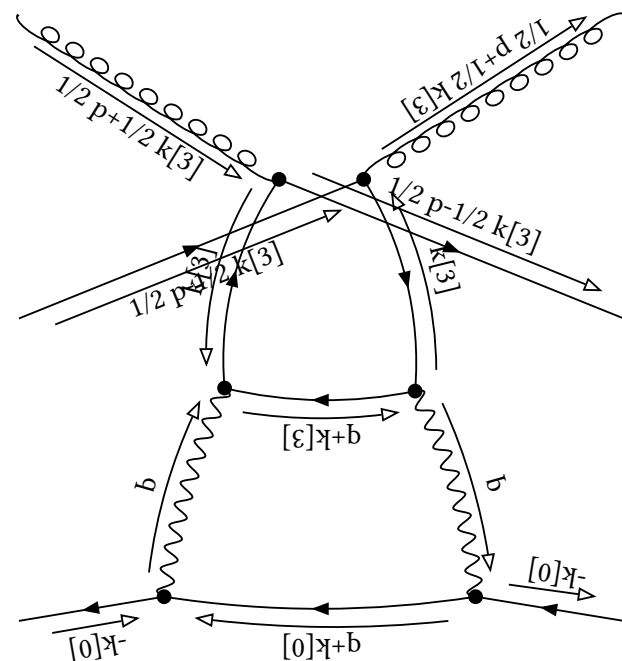
**initial**

Denominator:

$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, 1/2 \ p+1/2 \ k[3]]^{-1} \text{prop}[0, 1/2 \ p-1/2 \ k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & 2 \operatorname{prop}[0, k[3]]^{-2} \operatorname{prop}[0, q+k[3]]^{-1} \operatorname{prop}[0, 1/2 \ p+1/2 \ k[3]]^{-1} \operatorname{dot}[p, p]^{-1} \\ & + 2 \operatorname{prop}[0, k[3]]^{-2} \operatorname{prop}[0, q+k[3]]^{-1} \operatorname{prop}[0, 1/2 \ p-1/2 \ k[3]]^{-1} \operatorname{dot}[p, p]^{-1} \\ & - 2 \operatorname{prop}[0, k[3]]^{-1} \operatorname{prop}[0, q+k[3]]^{-1} \operatorname{prop}[0, 1/2 \ p+1/2 \ k[3]]^{-1} \operatorname{dot}[p, p]^{-2} \\ & - 2 \operatorname{prop}[0, k[3]]^{-1} \operatorname{prop}[0, q+k[3]]^{-1} \operatorname{prop}[0, 1/2 \ p-1/2 \ k[3]]^{-1} \operatorname{dot}[p, p]^{-2} \\ & + \operatorname{prop}[0, q+k[3]]^{-1} \operatorname{prop}[0, 1/2 \ p+1/2 \ k[3]]^{-1} \operatorname{prop}[0, 1/2 \ p-1/2 \ k[3]]^{-1} \operatorname{dot}[p, p]^{-2} \end{aligned}$$



$$-3+9+10$$

**final**

Denominator:

0

## embedding 7 [1, 0, -1, -2]

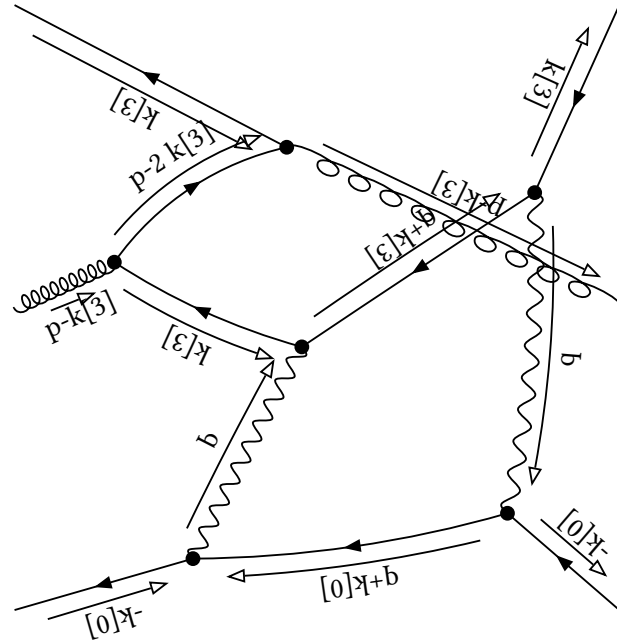
### initial

Denominator:

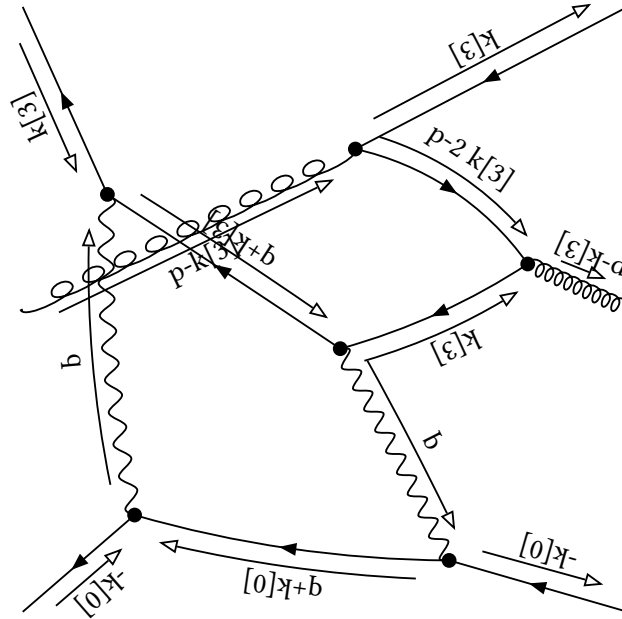
$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p-k[3]]^{-1} \text{prop}[0, p-2 k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & -\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p-k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & +2 \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p-2 k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & -2 \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p-k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & +4 \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p-2 k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & +4 \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p-k[3]]^{-1} \text{prop}[0, p-2 k[3]]^{-1} \text{dot}[p, p]^{-2} \end{aligned}$$



-3+10+12

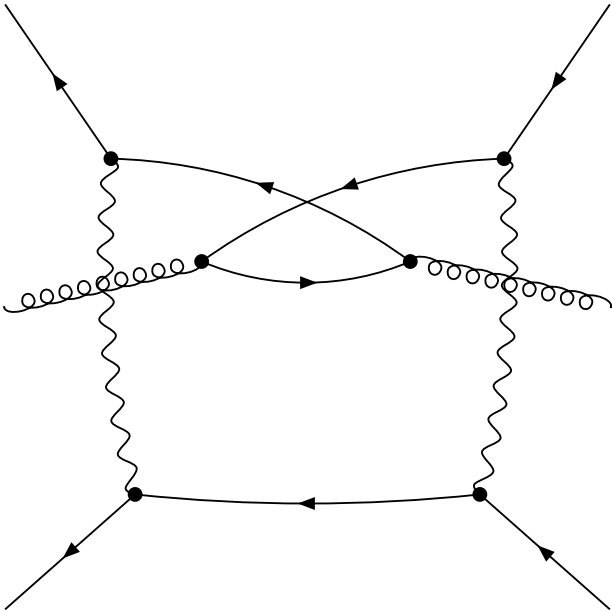


-3+10+14

**final**

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q-k[3]]^{-1} \text{prop}[0,p-q-2 \ k[3]]^{-1}$



$-1+10+16$

embedding 8 [1, 0, -1, -1]

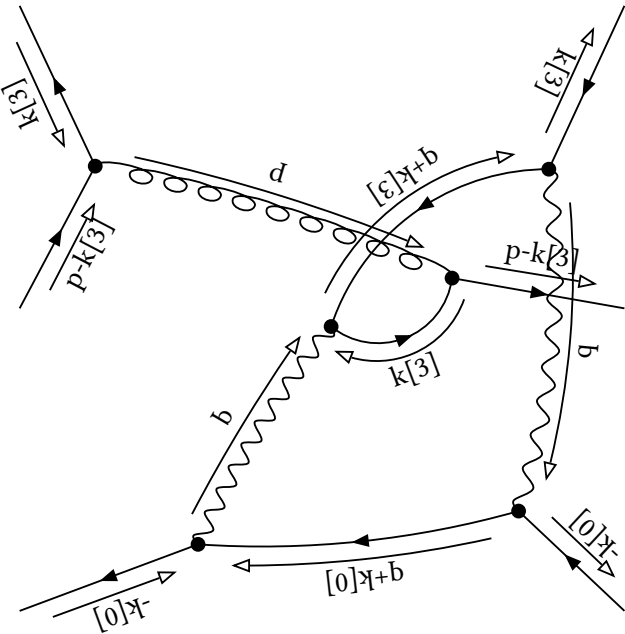
initial

Denominator:

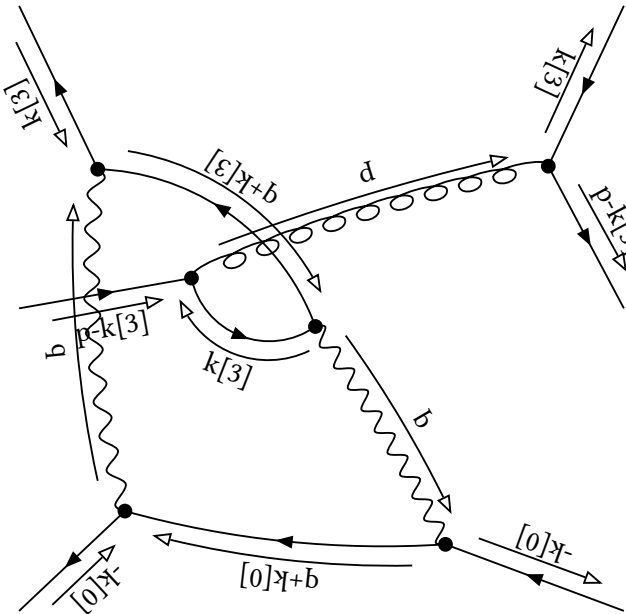
$\text{prop}[0,p]^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-k[3]]^{-1}$

Partial Fractioned Denominator:

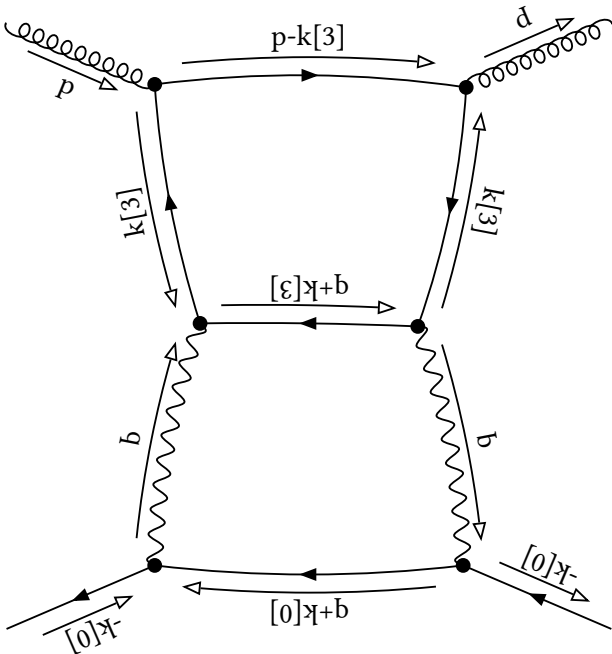
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-k[3]]^{-1} \text{dot}[p,p]^{-1}$



-3+9+12



-3+9+14

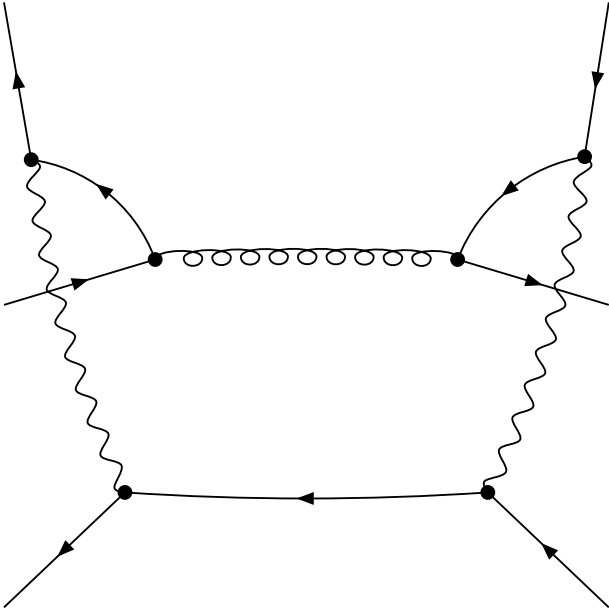


-3+10

**final**

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-q]^{-1} \text{prop}[0,p-q-k[3]]^{-1}$



$-1+9+16$



embedding 9 [1, 0, -1, 0]

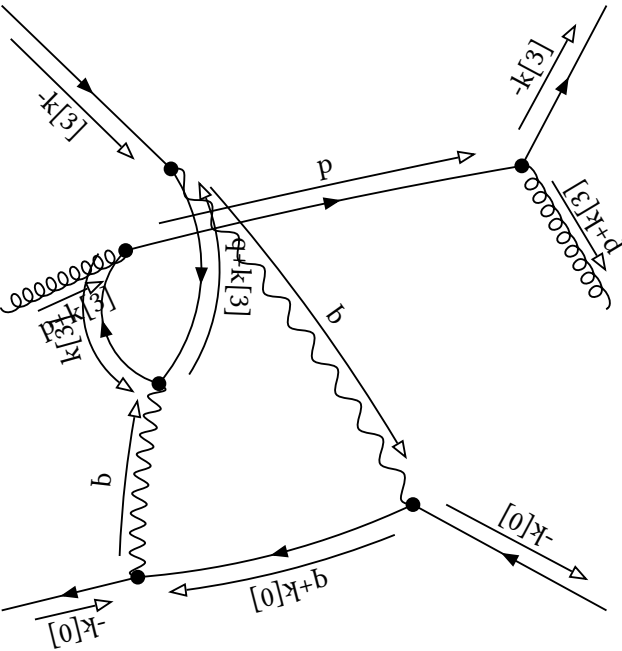
initial

Denominator:

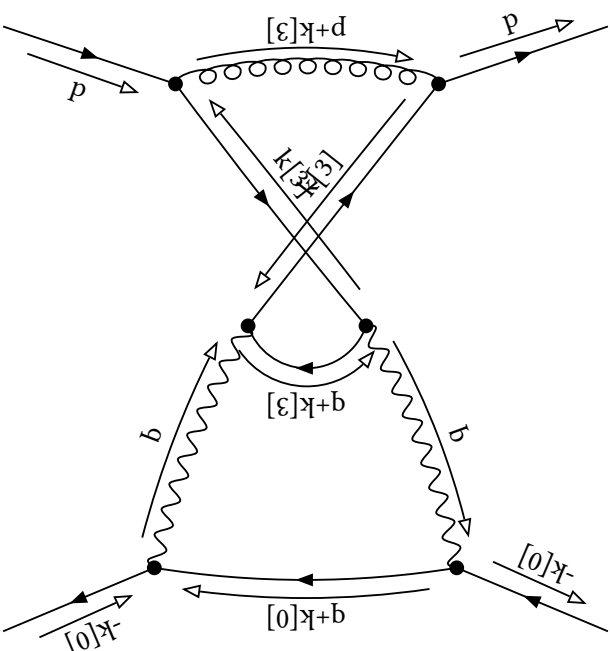
$\text{prop}[0,p]^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,p+k[3]]^{-1} \text{prop}[0,q+k[3]]^{-1}$

Partial Fractioned Denominator:

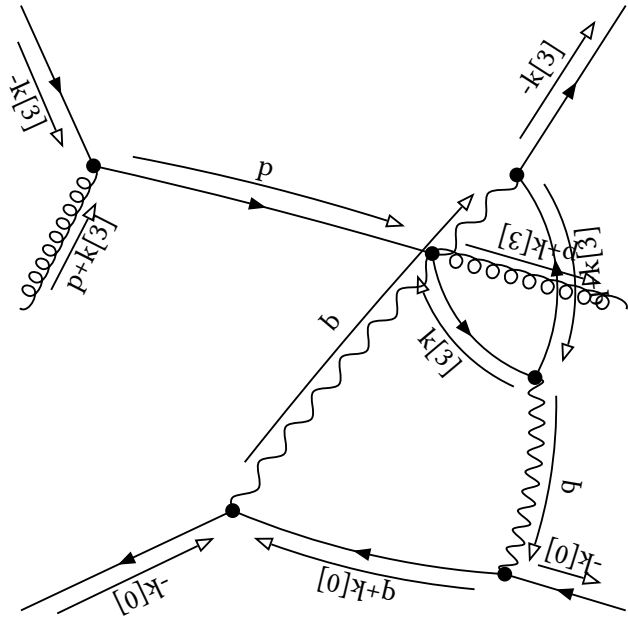
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,p+k[3]]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{dot}[p,p]^{-1}$



-3+10-12



-3+9



-3+10-14

**final**

Denominator:

0

## embedding 10 [1, 0, -1, 1]

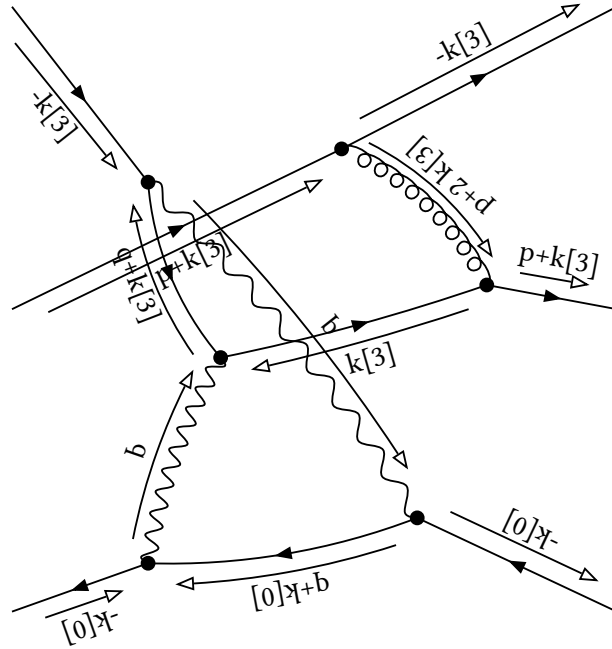
### initial

Denominator:

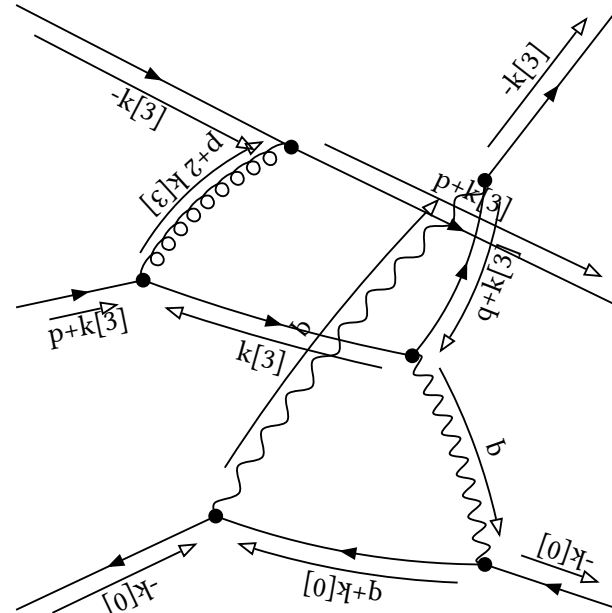
$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, p+k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+2 \ k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & -\text{prop}[0, k[3]]^{-2} \text{prop}[0, p+k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & +2 \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+2 \ k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & -2 \text{prop}[0, k[3]]^{-1} \text{prop}[0, p+k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & +4 \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+2 \ k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & +4 \text{prop}[0, p+k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+2 \ k[3]]^{-1} \text{dot}[p, p]^{-2} \end{aligned}$$



-3+9-12



-3+9-14

**final**

Denominator:

0

embedding 11 [1, 0, 0, -1]

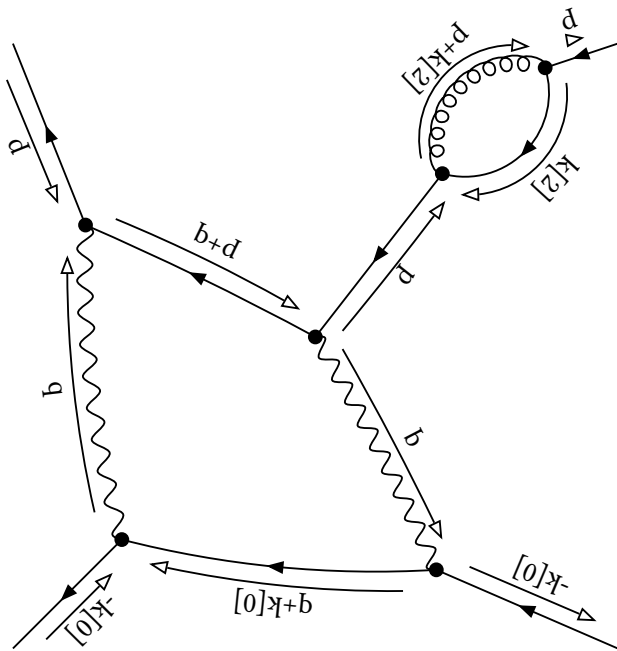
initial

Denominator:

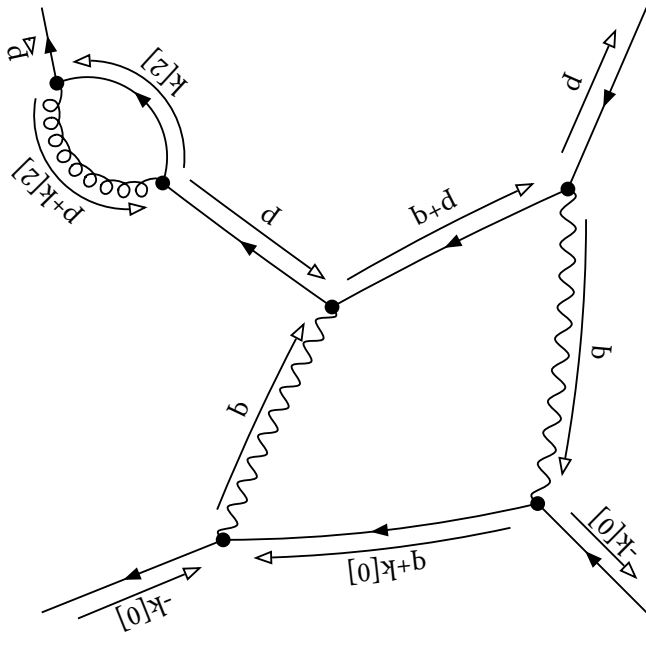
$\text{prop}[0,p]^{-2} \text{prop}[0,k[2]]^{-1} \text{prop}[0,p+q]^{-1} \text{prop}[0,p+k[2]]^{-1}$

Partial Fractioned Denominator:

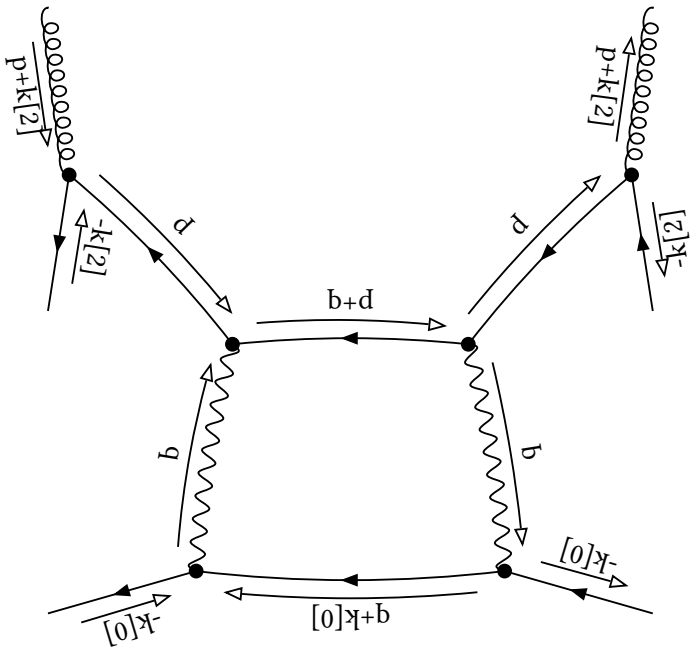
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,p+k[2]]^{-1} \text{dot}[p,p]^{-2}$



-3+14



-3+12

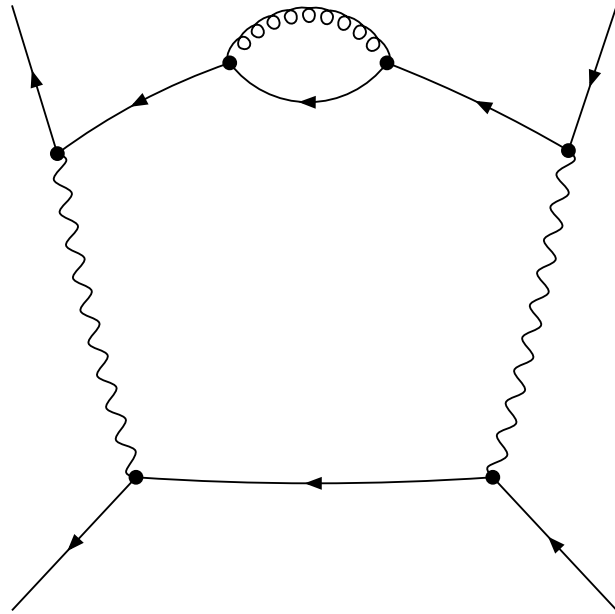


-3-9+10

**final**

Denominator:

$\text{prop}[0,p]^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,p-q]^{-2} \text{prop}[0,p-q+k[2]]^{-1}$



-1+16

## embedding 12 [1, 0, 0, 0]

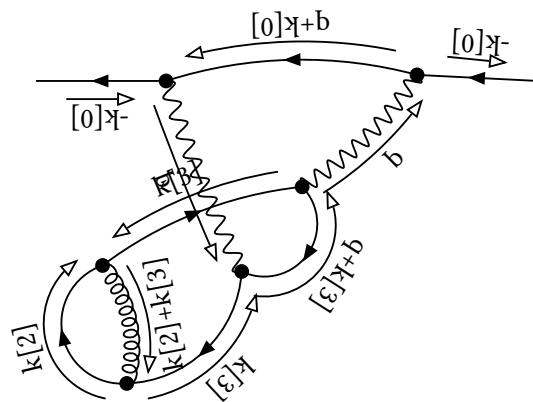
### initial

Denominator:

$$\text{prop}[0, k[2]]^{-1} \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, k[2]+k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\text{prop}[0, k[2]]^{-1} \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, k[2]+k[3]]^{-1}$$



**final**

Denominator:

0



embedding 13 [1, 0, 0, 1]

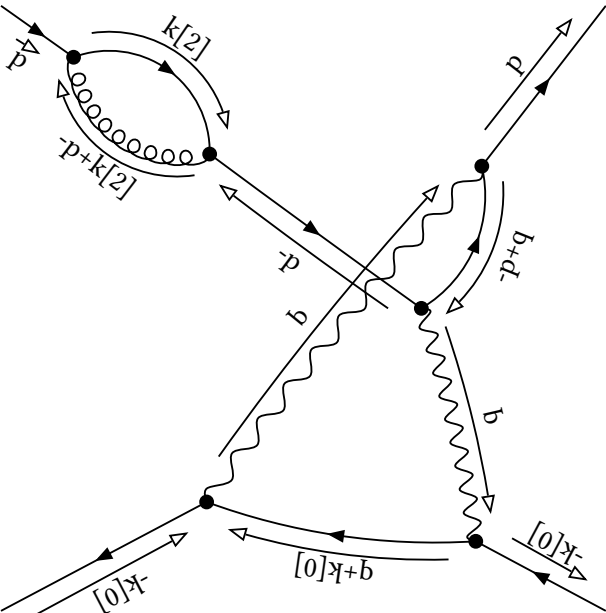
initial

Denominator:

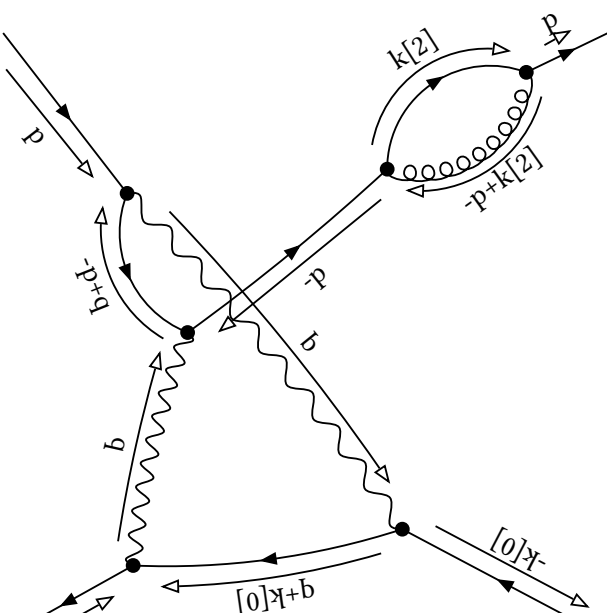
$$\text{prop}[0,k[2]]^{-1} \text{prop}[0,-p]^{-2} \text{prop}[0,-p+q]^{-1} \text{prop}[0,-p+k[2]]^{-1}$$

Partial Fractioned Denominator:

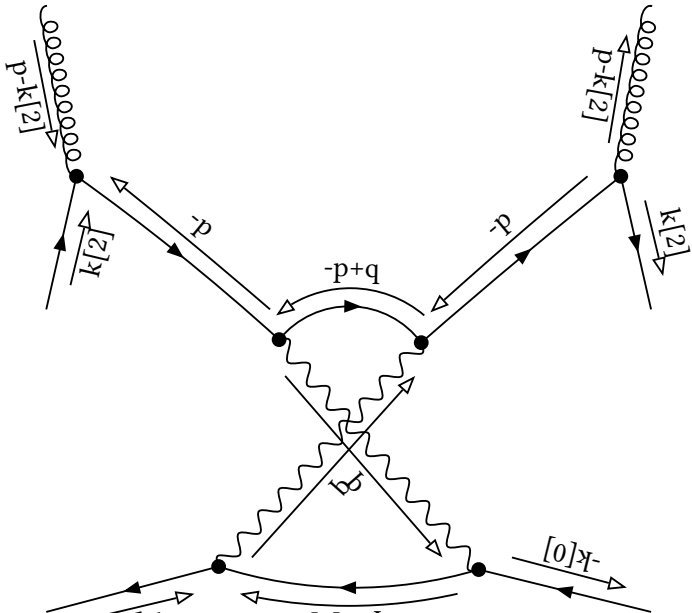
$$(\text{dot}[p,p]-2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,-p+k[2]]^{-1} \text{dot}[p,p]^{-2}$$



-3-14



-3-12



-3+9-10

**final**

Denominator:

0

## embedding 14 [1, 0, 1, -1]

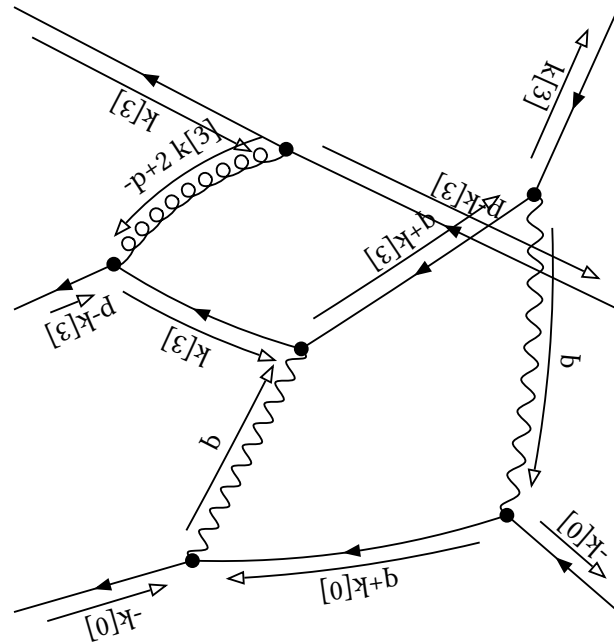
### initial

Denominator:

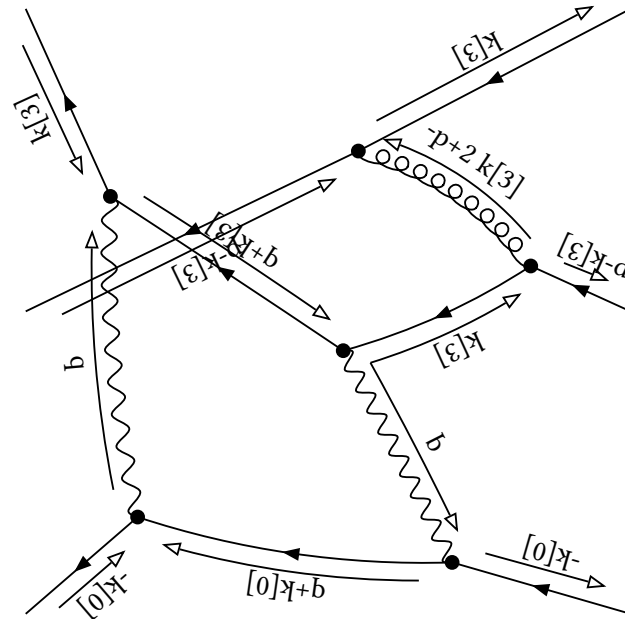
$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+k[3]]^{-1} \text{prop}[0, -p+2 k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & -\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & +2 \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+2 k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & -2 \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & +4 \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+2 k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & +4 \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+k[3]]^{-1} \text{prop}[0, -p+2 k[3]]^{-1} \text{dot}[p, p]^{-2} \end{aligned}$$



-3-9+12

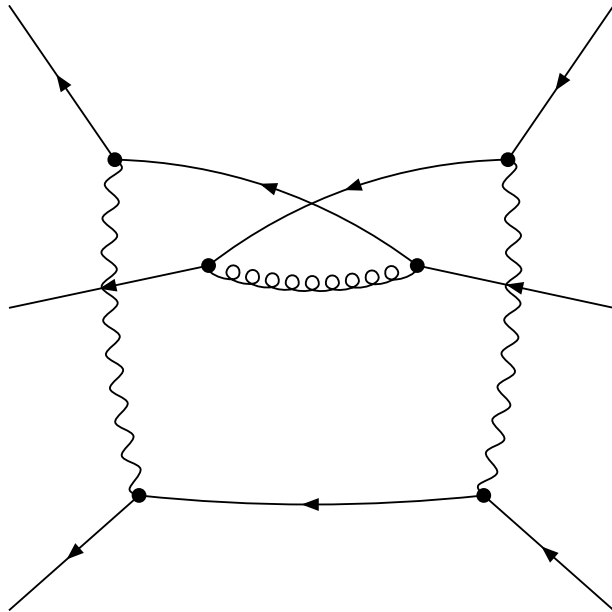


-3-9+14

**final**

Denominator:

$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+q+k[3]]^{-1} \text{prop}[0, -p+q+2 k[3]]^{-1}$



-1-9+16

embedding 15 [1, 0, 1, 0]

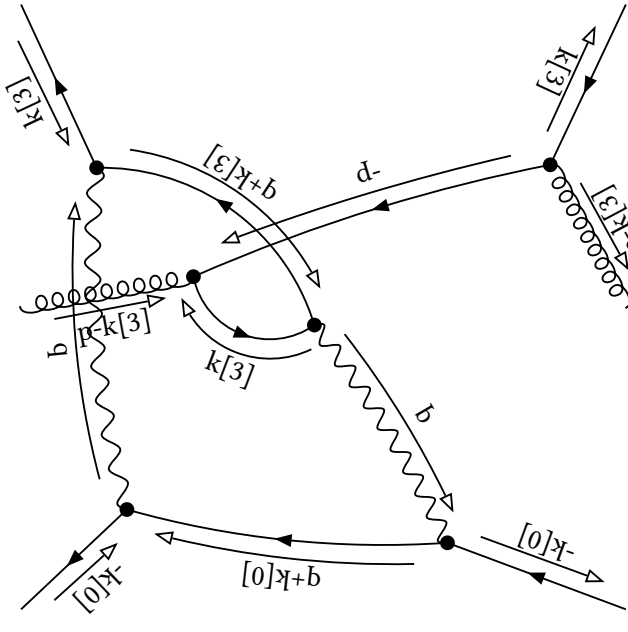
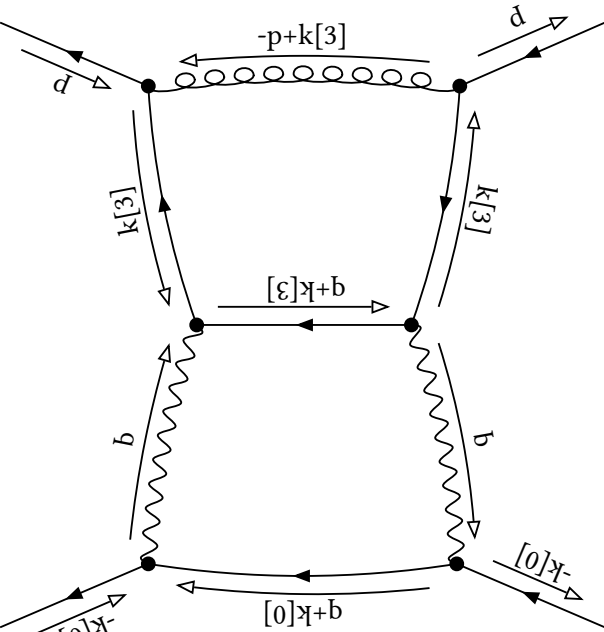
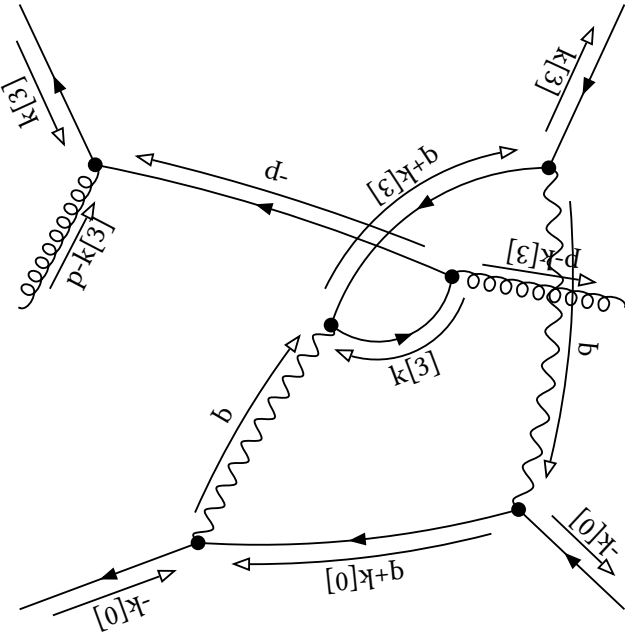
initial

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,-p]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p+k[3]]^{-1}$

Partial Fractioned Denominator:

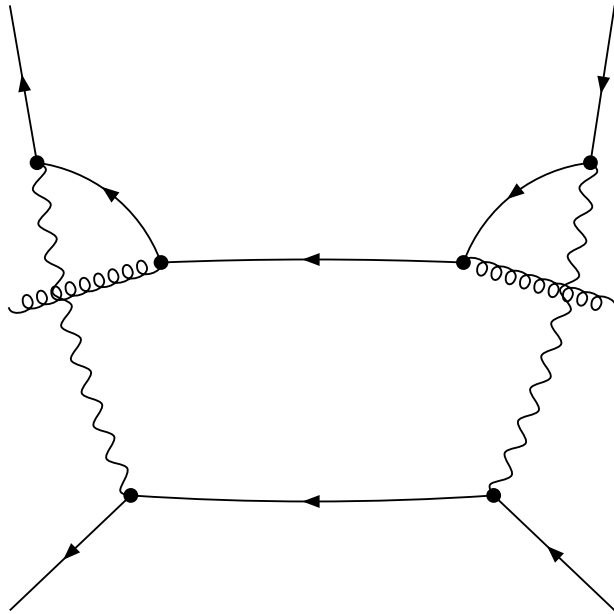
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p+k[3]]^{-1} \text{dot}[p,p]^{-1}$



**final**

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p+q]^{-1} \text{prop}[0,-p+q+k[3]]^{-1}$



-1-10+16

embedding 16 [1, 0, 1, 1]

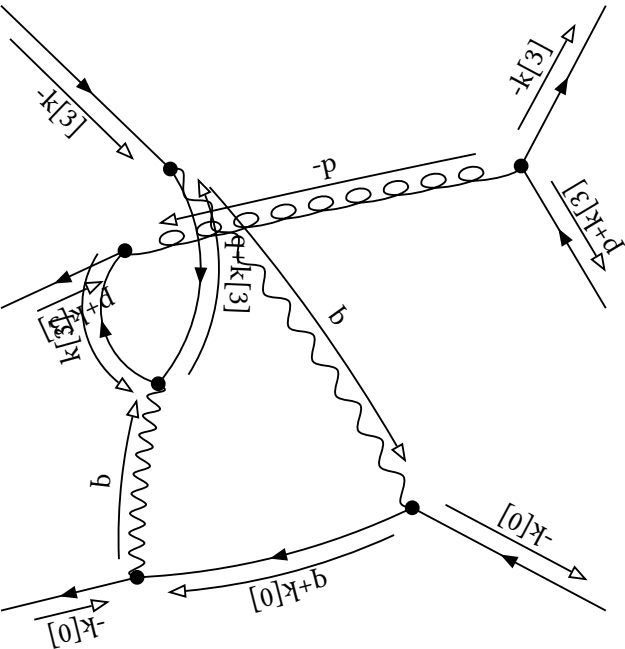
initial

Denominator:

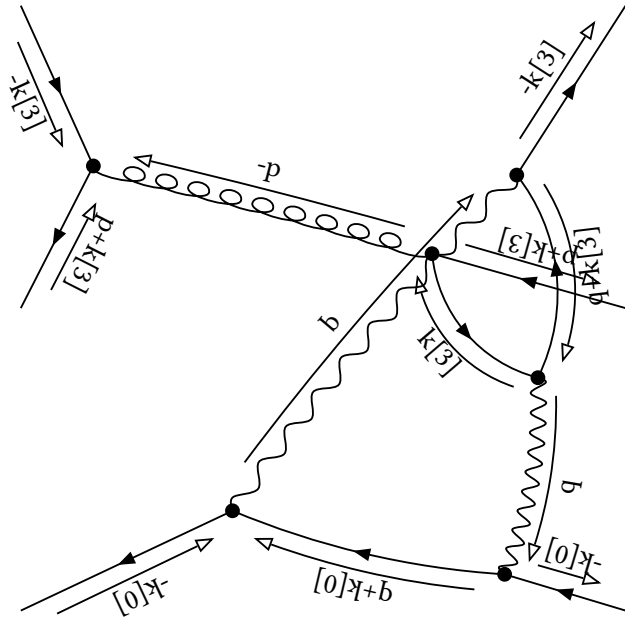
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,-p]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p-k[3]]^{-1}$

Partial Fractioned Denominator:

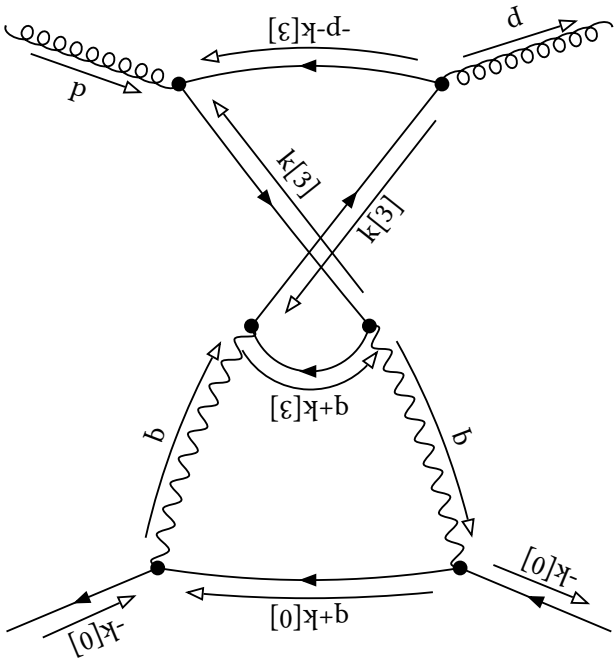
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p-k[3]]^{-1} \text{dot}[p,p]^{-1}$



-3-9-12



-3-9-14



-3-10

**final**

Denominator:

0



## embedding 17 [1, 0, 1, 2]

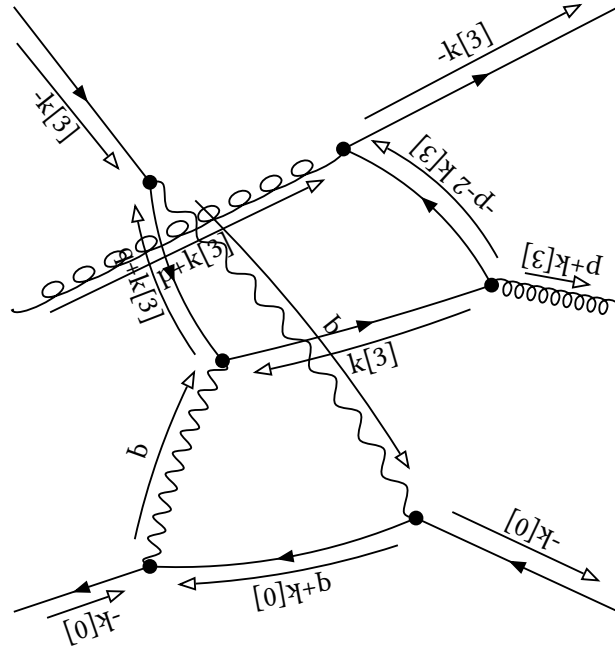
### initial

Denominator:

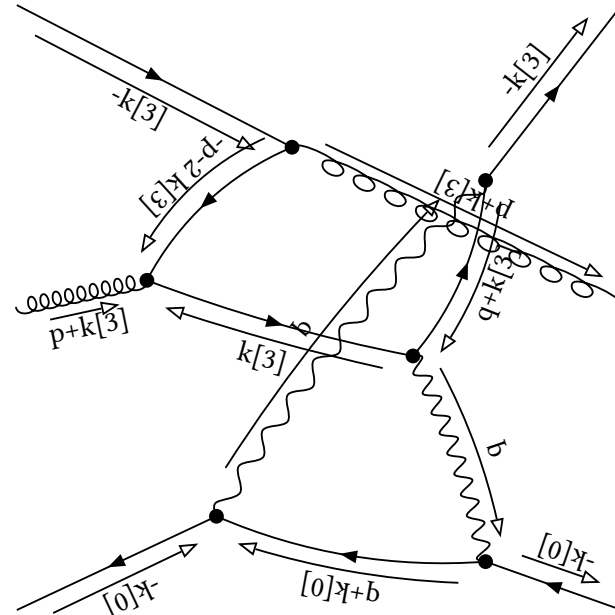
$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-k[3]]^{-1} \text{prop}[0, -p-2 k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & -\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & +2 \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-2 k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & -2 \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & +4 \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-2 k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & +4 \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-k[3]]^{-1} \text{prop}[0, -p-2 k[3]]^{-1} \text{dot}[p, p]^{-2} \end{aligned}$$



-3-10-12



-3-10-14

**final**

Denominator:

0

## embedding 18 [1, 0, 2, 1]

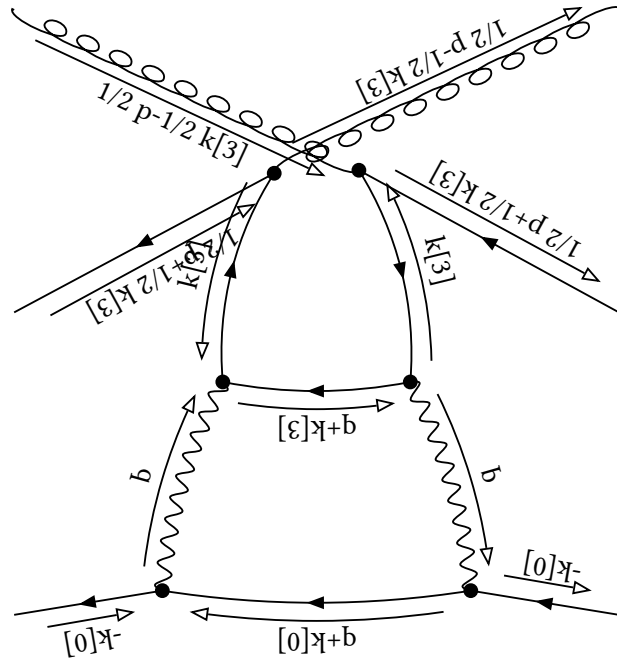
### initial

Denominator:

$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -1/2 p+1/2 k[3]]^{-1} \text{prop}[0, -1/2 p-1/2 k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & 2 \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -1/2 p+1/2 k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & + 2 \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -1/2 p-1/2 k[3]]^{-1} \text{dot}[p, p]^{-1} \\ & - 2 \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -1/2 p+1/2 k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & - 2 \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -1/2 p-1/2 k[3]]^{-1} \text{dot}[p, p]^{-2} \\ & + \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -1/2 p+1/2 k[3]]^{-1} \text{prop}[0, -1/2 p-1/2 k[3]]^{-1} \text{dot}[p, p]^{-2} \end{aligned}$$



**final**

Denominator:

0

**embedding 19 [1, 1, -2, -1]**

**initial**

Denominator:

0

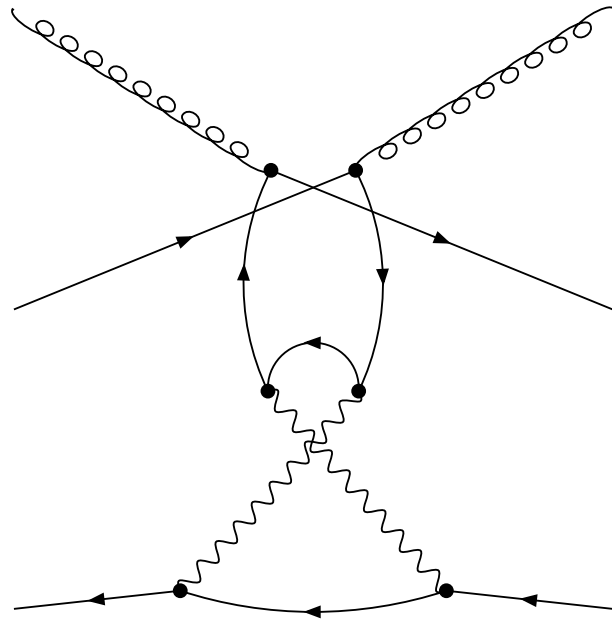
Partial Fractioned Denominator:

0

**final**

Denominator:

$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, 1/2 \text{ p}+1/2 \text{ k}[3]]^{-1} \text{prop}[0, 1/2 \text{ p}-1/2 \text{ k}[3]]^{-1}$$



$$-1+9+10$$

**embedding 20 [1, 1, -1, -2]**

**initial**

Denominator:

0

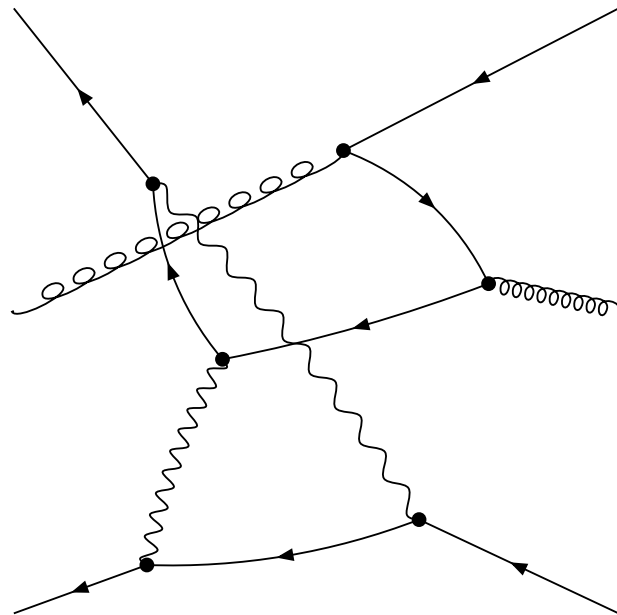
Partial Fractioned Denominator:

0

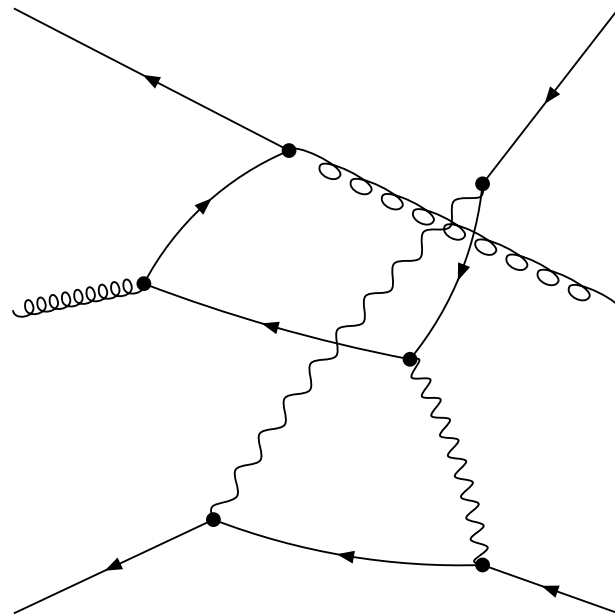
**final**

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-k[3]]^{-1} \text{prop}[0,p-2 k[3]]^{-1}$



-1+10+14



-1+10+12



**embedding 21 [1, 1, -1, -1]**

**initial**

Denominator:

0

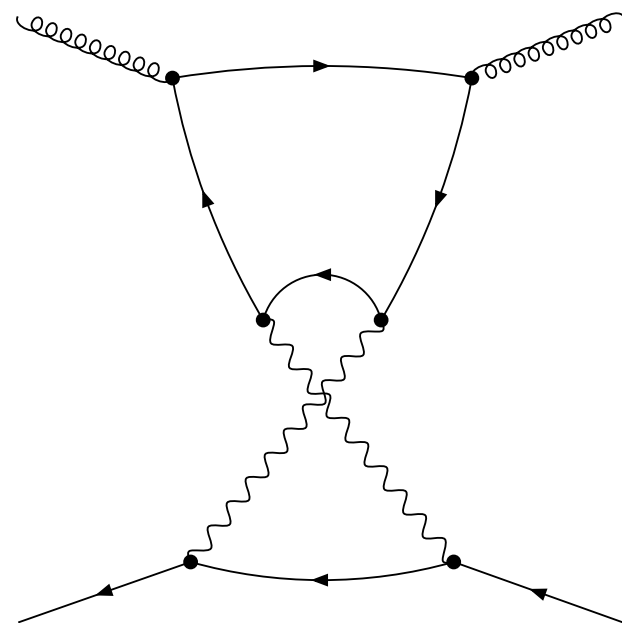
Partial Fractioned Denominator:

0

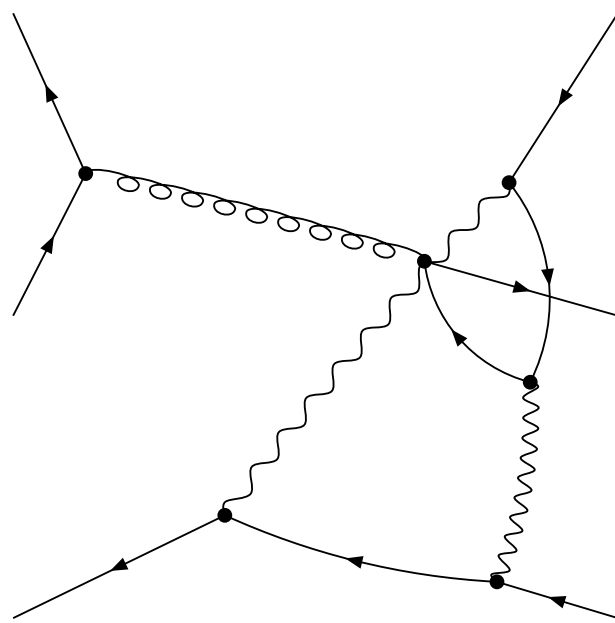
**final**

Denominator:

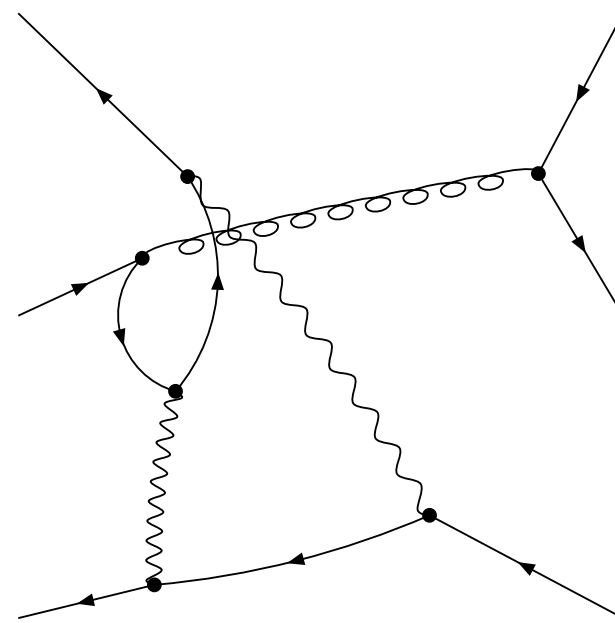
$\text{prop}[0,p]^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-k[3]]^{-1}$



-1+10



-1+9+12



-1+9+14

**embedding 22 [1, 1, -1, 0]**

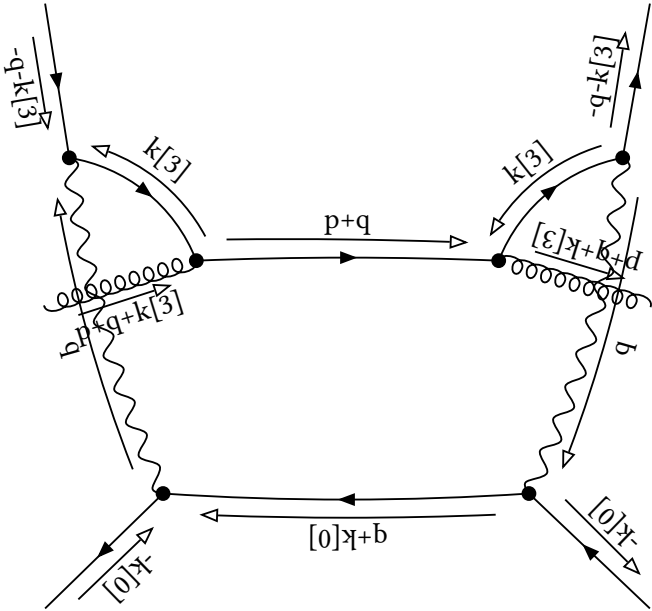
**initial**

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,p+q]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p+q+k[3]]^{-1}$

Partial Fractioned Denominator:

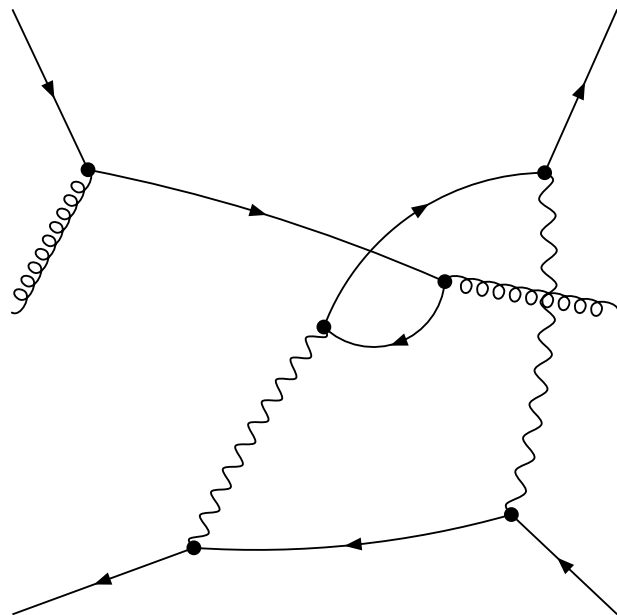
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p+q+k[3]]^{-1}$



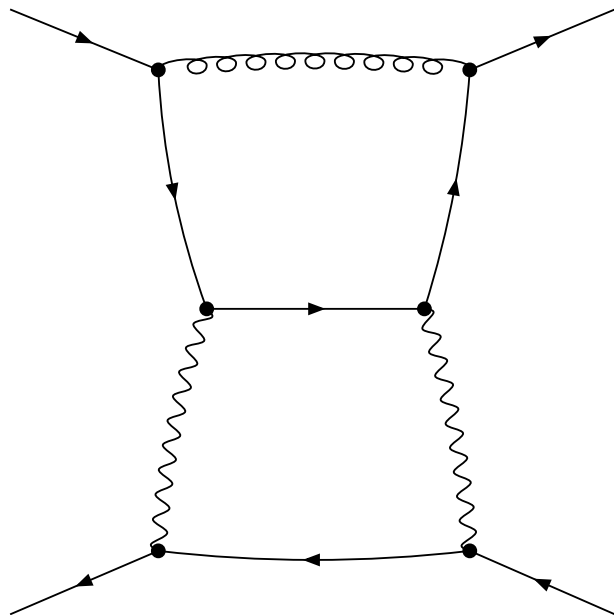
**final**

Denominator:

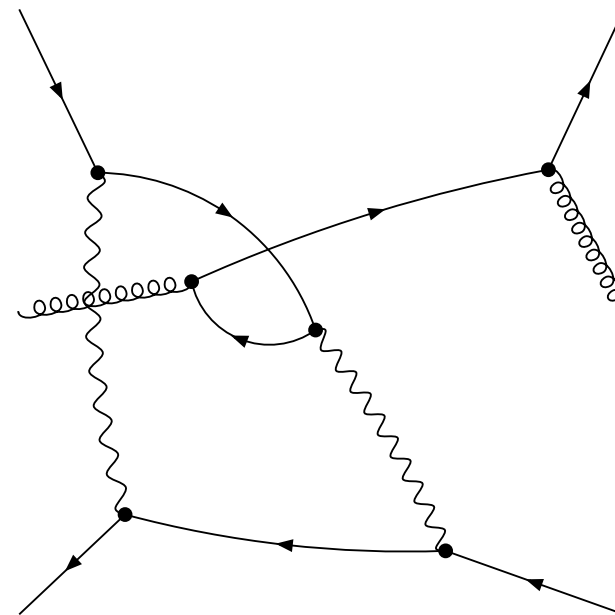
$\text{prop}[0,p]^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,p+k[3]]^{-1} \text{prop}[0,q+k[3]]^{-1}$



-1+10-14



-1+9



-1+10-12

## embedding 23 [1, 1, -1, 1]

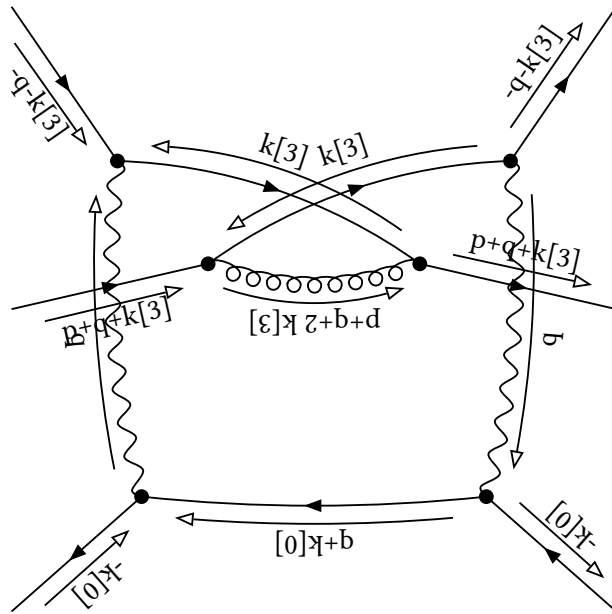
### initial

Denominator:

$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+q+k[3]]^{-1} \text{prop}[0, p+q+2 \ k[3]]^{-1}$$

Partial Fractioned Denominator:

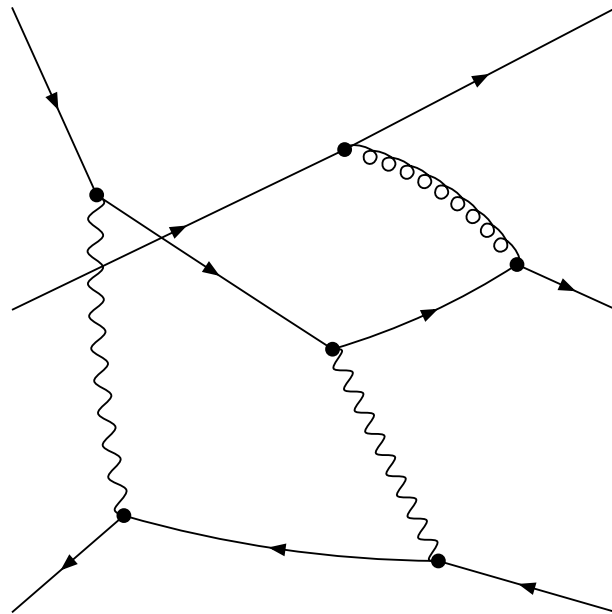
$$\begin{aligned} & -1/2 \ (1/2 \ \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \ \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+q+k[3]]^{-1} \\ & + (1/2 \ \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \ \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+q+2 \ k[3]]^{-1} \\ & + (1/2 \ \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \ \text{dot}[q, q])^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+q+k[3]]^{-1} \text{prop}[0, p+q+2 \ k[3]]^{-1} \\ & - 1/2 \ (1/2 \ \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \ \text{dot}[q, q])^{-1} \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+q+k[3]]^{-1} \\ & + (1/2 \ \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \ \text{dot}[q, q])^{-1} \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+q+2 \ k[3]]^{-1} \end{aligned}$$



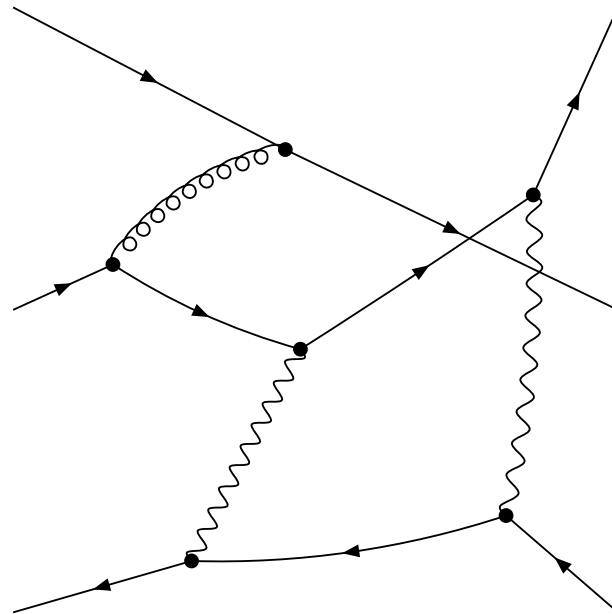
**final**

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,p+k[3]]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p+2 k[3]]^{-1}$



-1+9-12



-1+9-14

**embedding 24 [1, 1, 0, -1]**

**initial**

Denominator:

0

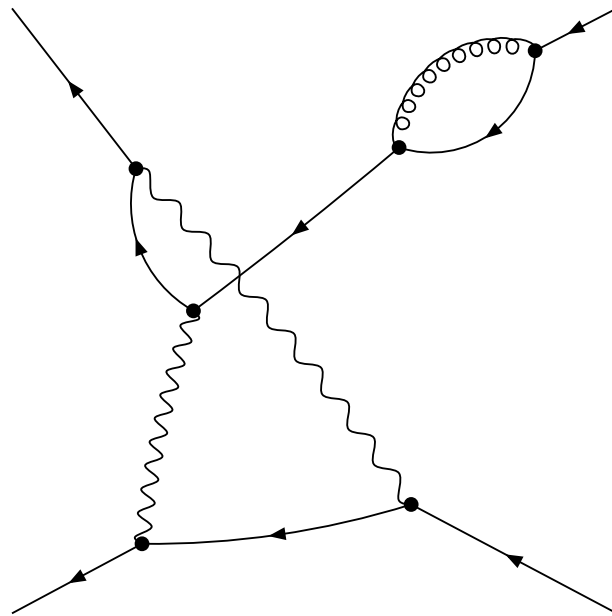
Partial Fractioned Denominator:

0

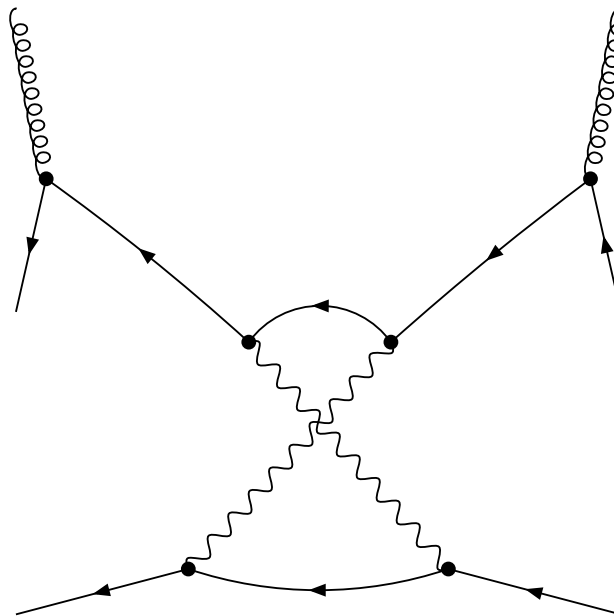
**final**

Denominator:

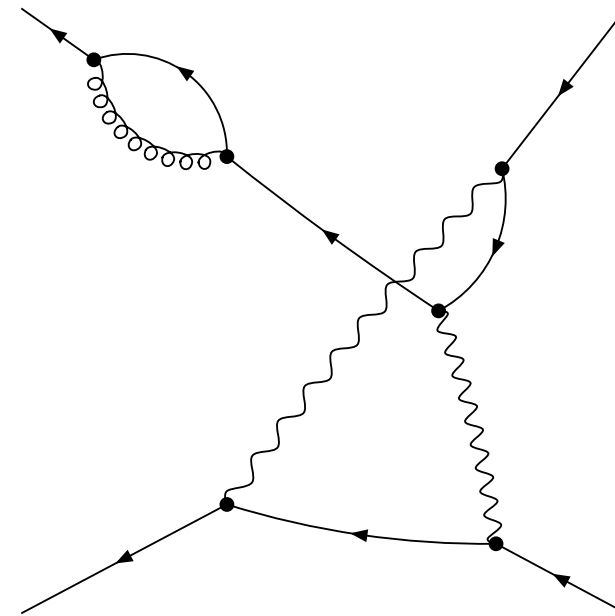
$\text{prop}[0,p]^{-2} \text{prop}[0,k[2]]^{-1} \text{prop}[0,p+q]^{-1} \text{prop}[0,p+k[2]]^{-1}$



-1+14



-1-9+10



-1+12



**embedding 25 [1, 1, 0, 0]**

**initial**

Denominator:

0

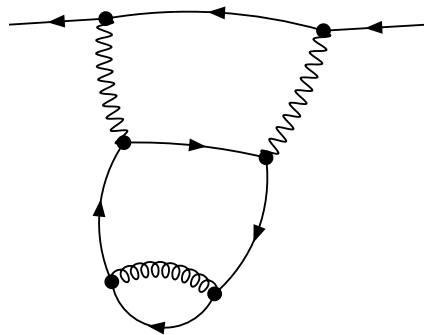
Partial Fractioned Denominator:

0

**final**

Denominator:

$$\text{prop}[0,k[2]]^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,k[2]+k[3]]^{-1}$$



-1

**embedding 26 [1, 1, 0, 1]**

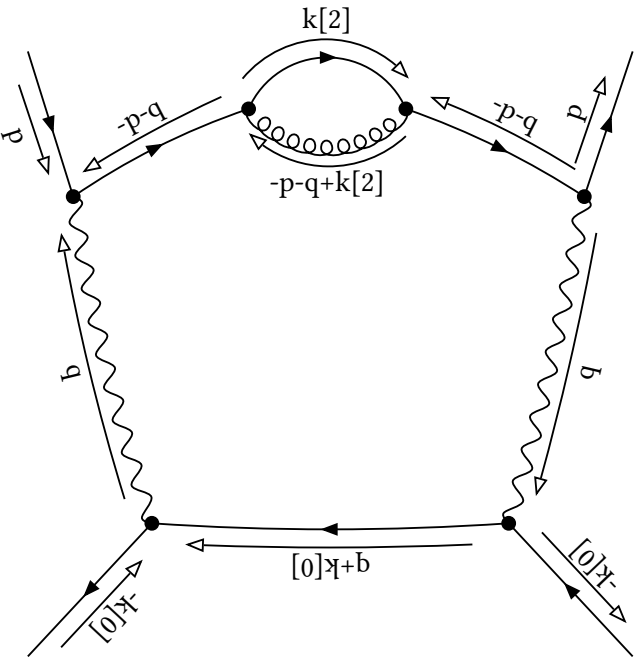
**initial**

Denominator:

$\text{prop}[0,k[2]]^{-1} \text{prop}[0,-p]^{-1} \text{prop}[0,-p-q]^{-2} \text{prop}[0,-p-q+k[2]]^{-1}$

Partial Fractioned Denominator:

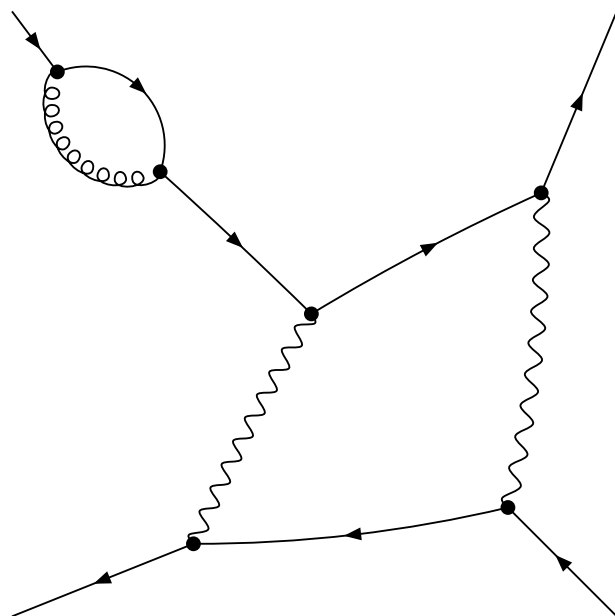
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-2} \text{prop}[0,k[2]]^{-1} \text{prop}[0,-p-q+k[2]]^{-1} \text{dot}[p,p]^{-1}$



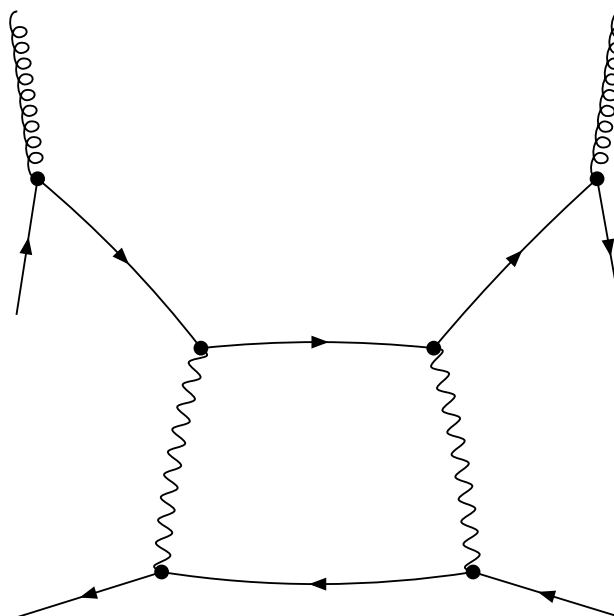
**final**

Denominator:

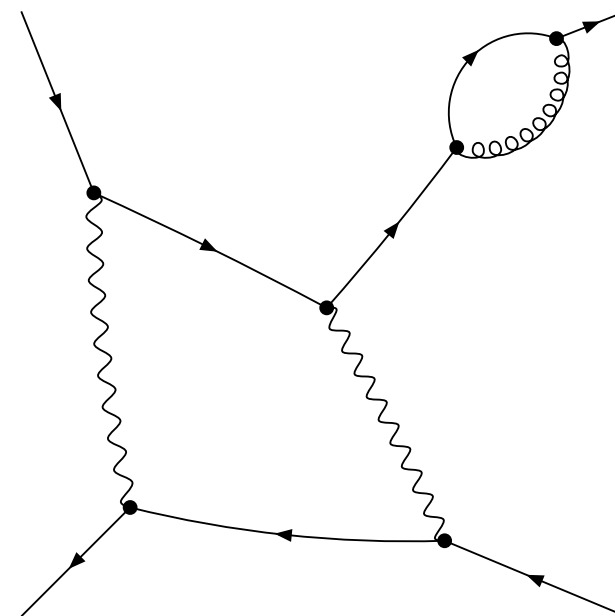
$\text{prop}[0, k[2]]^{-1} \text{prop}[0, -p]^{-2} \text{prop}[0, -p+q]^{-1} \text{prop}[0, -p+k[2]]^{-1}$



-1-14



-1+9-10



-1-12

**embedding 27 [1, 1, 1, -1]**

**initial**

Denominator:

0

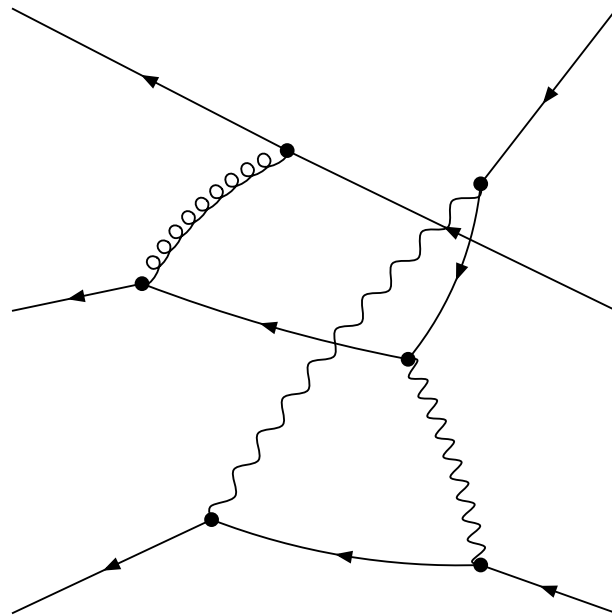
Partial Fractioned Denominator:

0

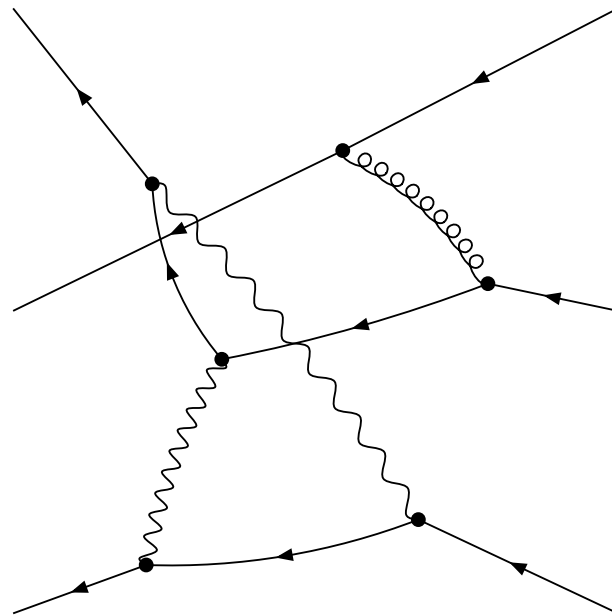
**final**

Denominator:

$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+k[3]]^{-1} \text{prop}[0, -p+2 k[3]]^{-1}$



$-1-9+12$



$-1-9+14$

**embedding 28 [1, 1, 1, 0]**

**initial**

Denominator:

0

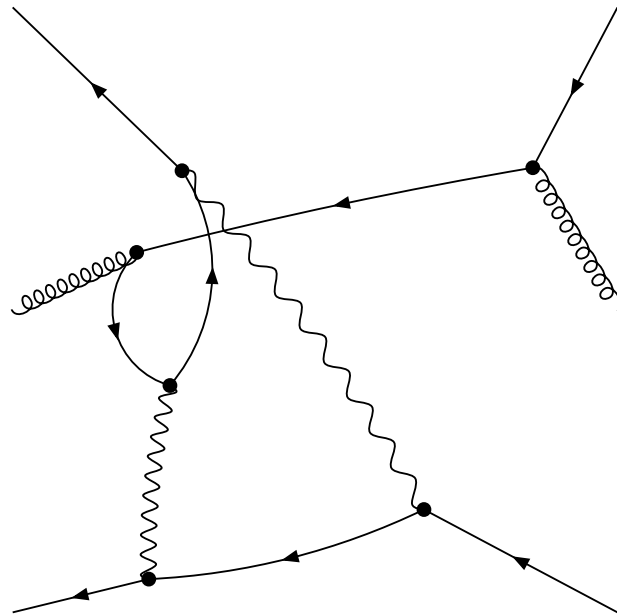
Partial Fractioned Denominator:

0

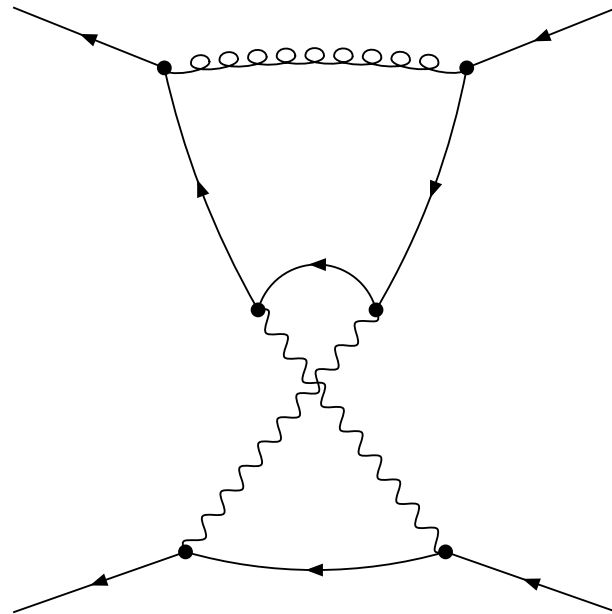
**final**

Denominator:

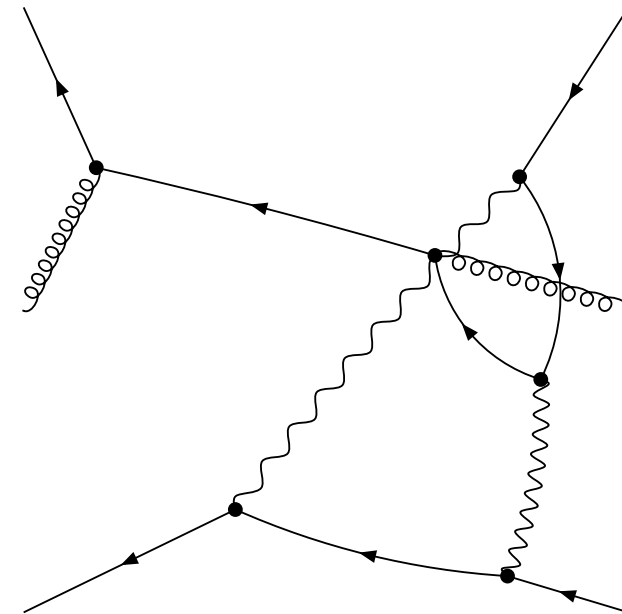
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,-p]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p+k[3]]^{-1}$



-1-10+14



-1-9



-1-10+12



embedding 29 [1, 1, 1, 1]

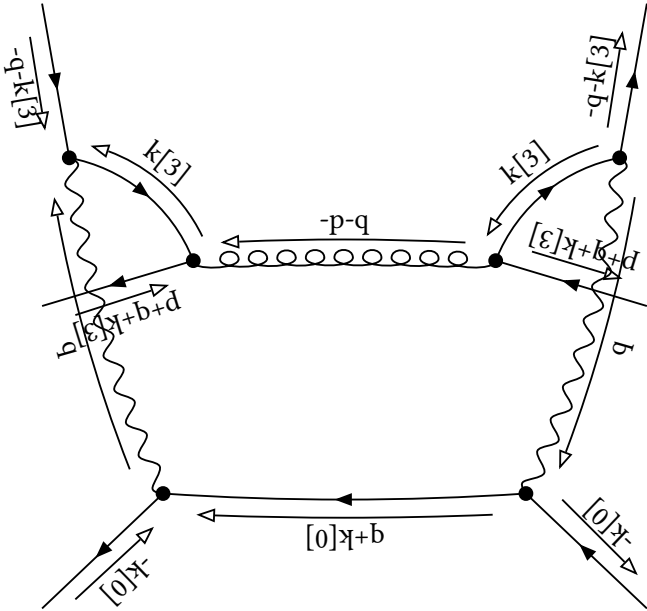
initial

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p-q]^{-1} \text{prop}[0,-p-q-k[3]]^{-1}$

Partial Fractioned Denominator:

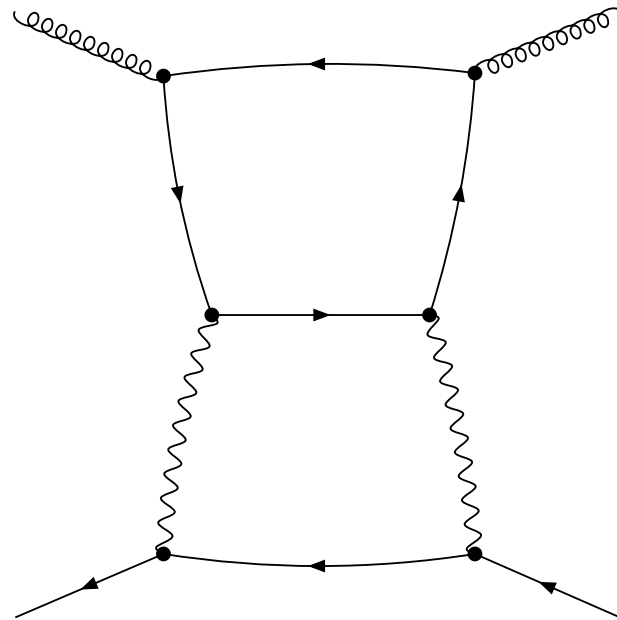
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p-q-k[3]]^{-1}$



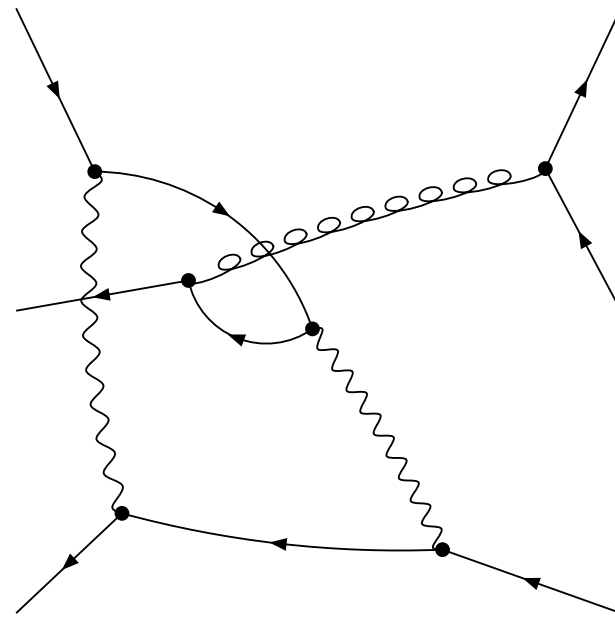
**final**

Denominator:

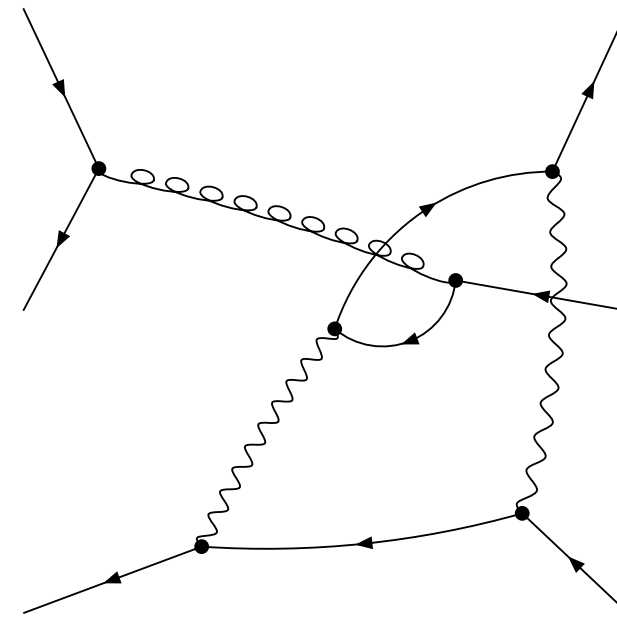
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,-p]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p-k[3]]^{-1}$



-1-10



-1-9-12



-1-9-14

## embedding 30 [1, 1, 1, 2]

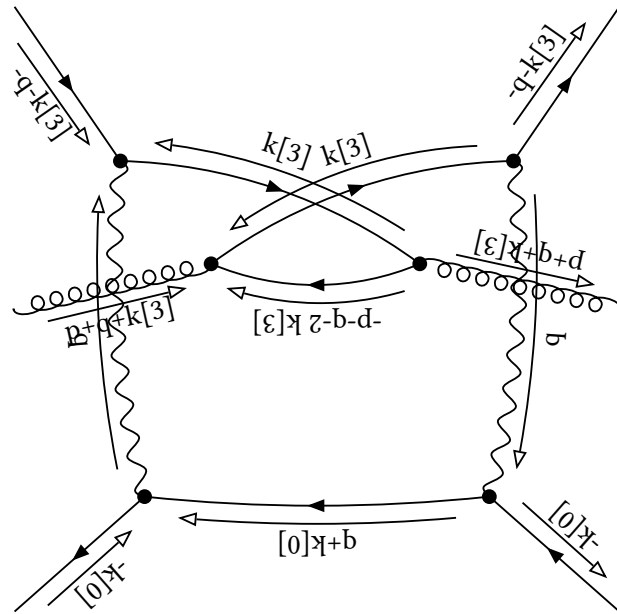
### initial

Denominator:

$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-q-k[3]]^{-1} \text{prop}[0, -p-q-2 k[3]]^{-1}$$

Partial Fractioned Denominator:

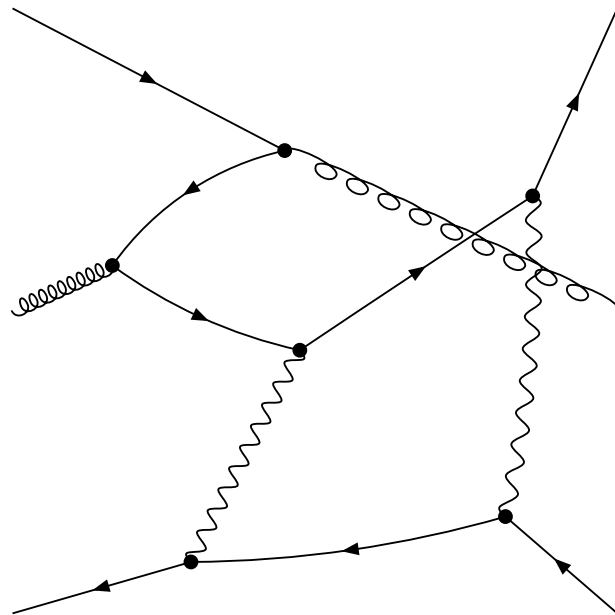
$$\begin{aligned} & -1/2 (1/2 \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-q-k[3]]^{-1} \\ & + (1/2 \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-q-2 k[3]]^{-1} \\ & + (1/2 \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-q-k[3]]^{-1} \text{prop}[0, -p-q-2 k[3]]^{-1} \\ & -1/2 (1/2 \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-1} \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-q-k[3]]^{-1} \\ & + (1/2 \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-1} \text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-q-2 k[3]]^{-1} \end{aligned}$$



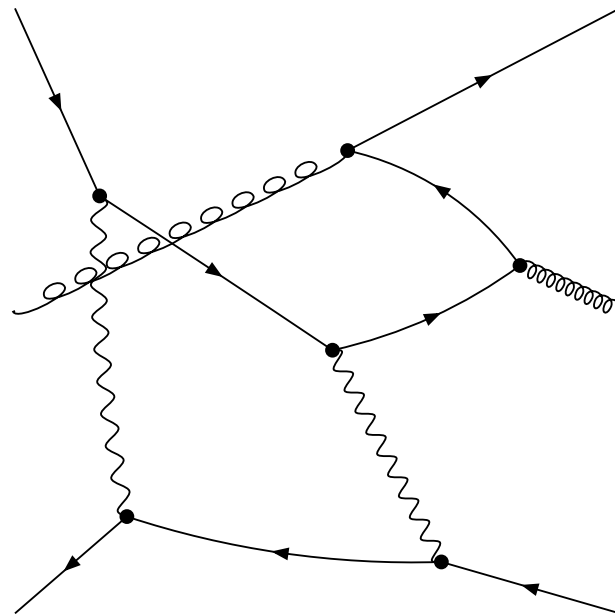
**final**

Denominator:

$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-k[3]]^{-1} \text{prop}[0, -p-2 k[3]]^{-1}$



-1-10-14



-1-10-12

**embedding 31 [1, 1, 2, 1]**

**initial**

Denominator:

0

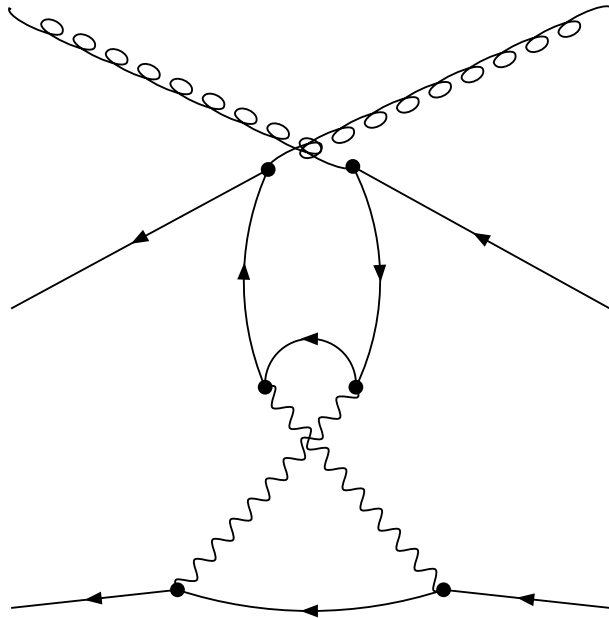
Partial Fractioned Denominator:

0

**final**

Denominator:

$$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-1/2 \ p+1/2 \ k[3]]^{-1} \text{prop}[0,-1/2 \ p-1/2 \ k[3]]^{-1}$$



-1-9-10

**embedding 32 [1, 2, -1, 0]**

**initial**

Denominator:

0

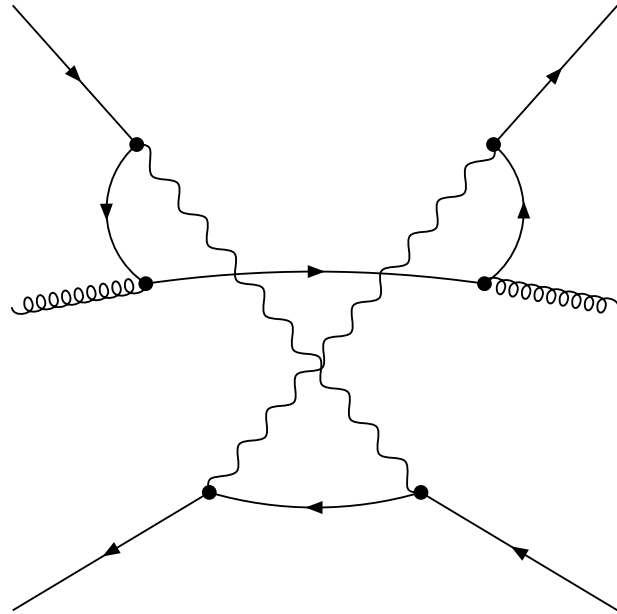
Partial Fractioned Denominator:

0

**final**

Denominator:

$\text{prop}[0,k[3]]^{-2} \text{prop}[0,p+q]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p+q+k[3]]^{-1}$



-1+10-16



**embedding 33 [1, 2, -1, 1]**

**initial**

Denominator:

0

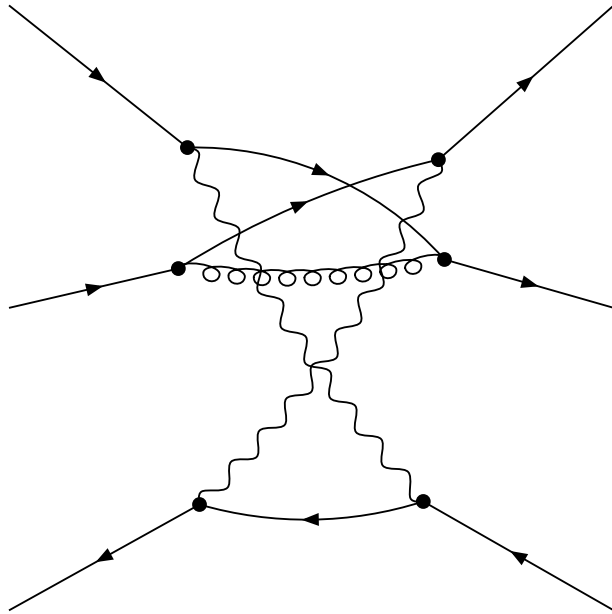
Partial Fractioned Denominator:

0

**final**

Denominator:

$$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p+q+k[3]]^{-1} \text{prop}[0,p+q+2 \ k[3]]^{-1}$$



-1+9-16

**embedding 34 [1, 2, 0, 1]**

**initial**

Denominator:

0

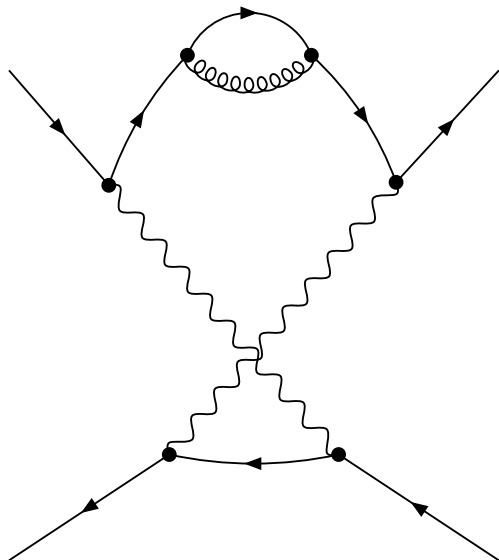
Partial Fractioned Denominator:

0

**final**

Denominator:

$\text{prop}[0,k[2]]^{-1} \text{prop}[0,-p]^{-1} \text{prop}[0,-p-q]^{-2} \text{prop}[0,-p-q+k[2]]^{-1}$



-1-16

**embedding 35 [1, 2, 1, 1]**

**initial**

Denominator:

0

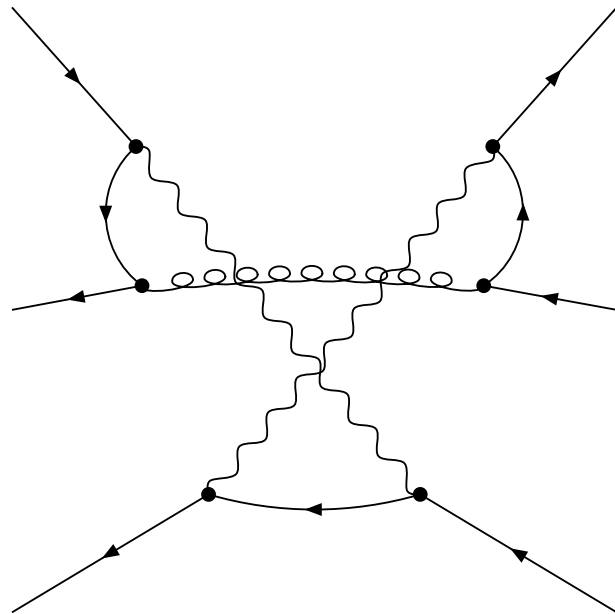
Partial Fractioned Denominator:

0

**final**

Denominator:

$$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p-q]^{-1} \text{prop}[0,-p-q-k[3]]^{-1}$$



-1-9-16

**embedding 36 [1, 2, 1, 2]**

**initial**

Denominator:

0

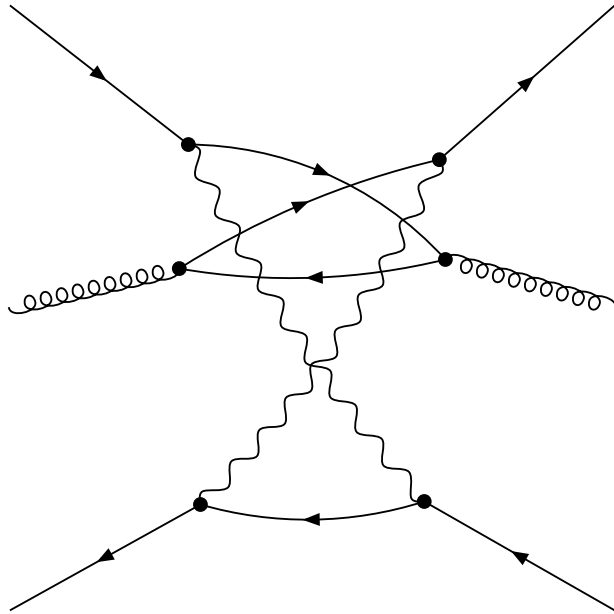
Partial Fractioned Denominator:

0

**final**

Denominator:

$$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p-q-k[3]]^{-1} \text{prop}[0,-p-q-2 k[3]]^{-1}$$



-1-10-16



