

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

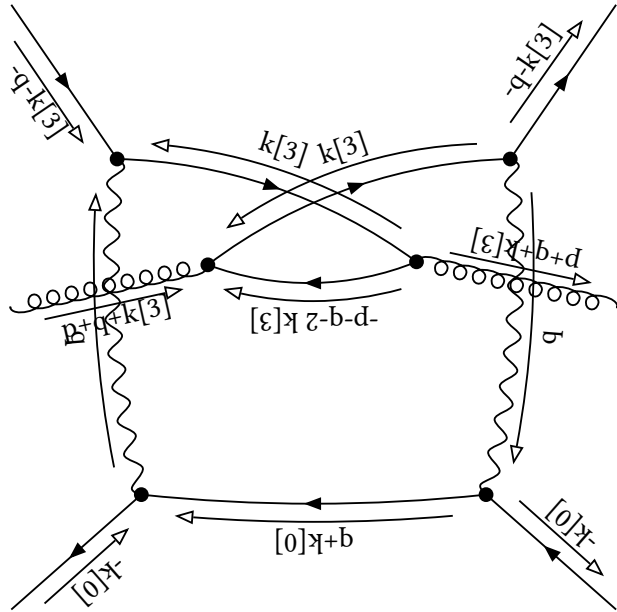
### initial

Denominator:

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

Partial Fractioned Denominator:

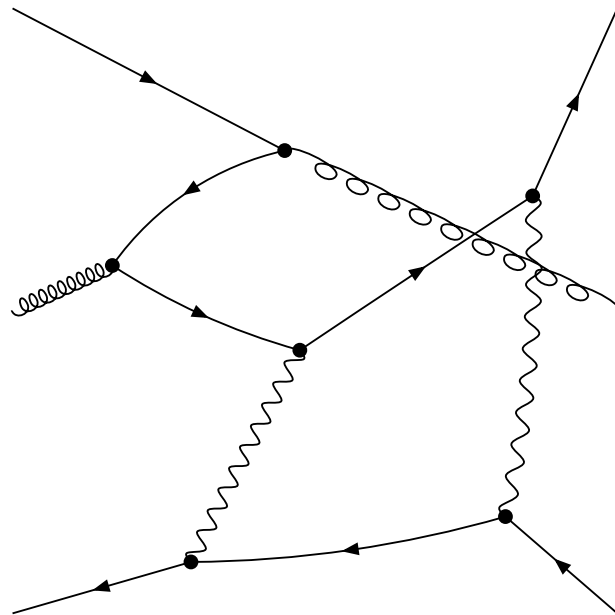
$$\begin{aligned} & -1/2 (1/2 \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p-q-k[3]]^{-1} \\ & + (1/2 \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1}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



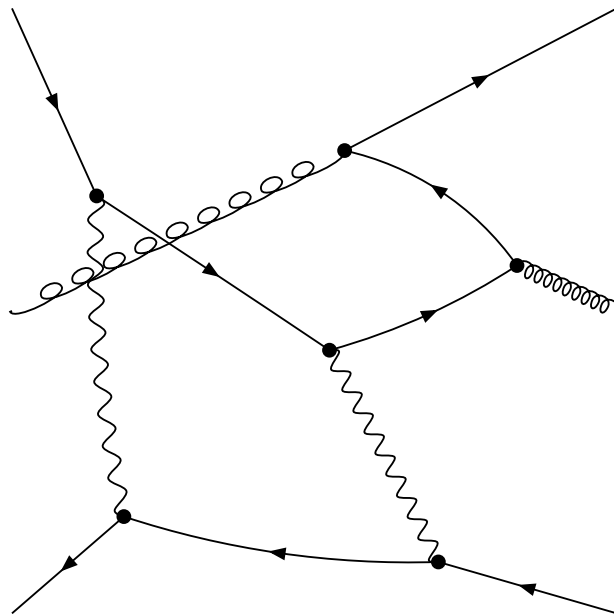
**final**

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 2 [-1, -1, -1, -1]**

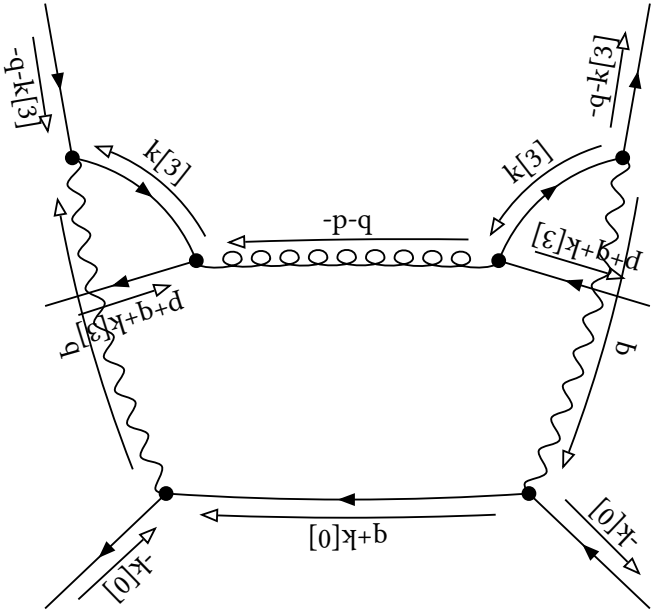
**initial**

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:

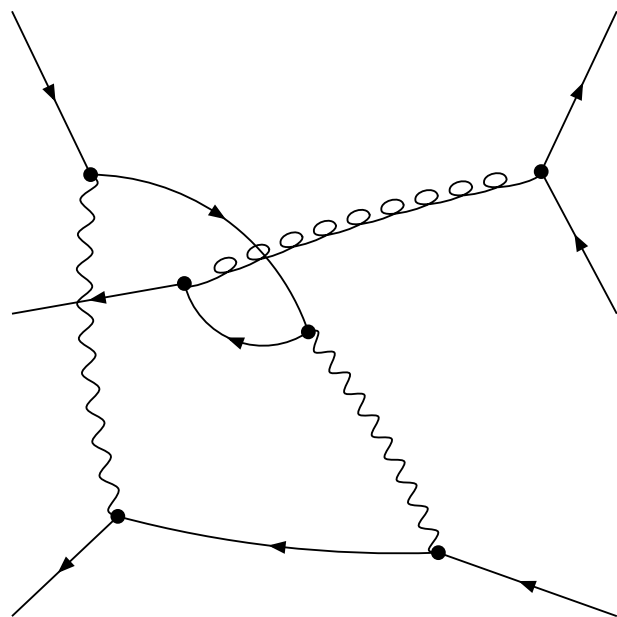
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p-q-k[3]]^{-1}$



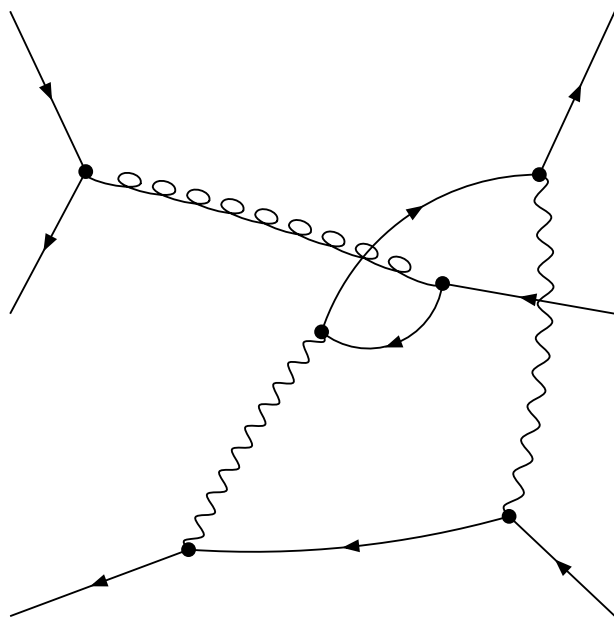
**final**

Denominator:

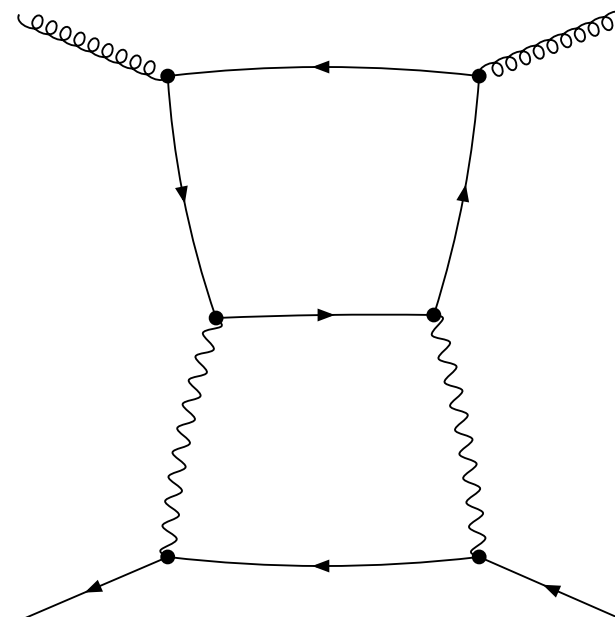
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,-p]^{-1} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p-k[3]]^{-1}$



-1-9-12



-1-9-14



-1-10

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

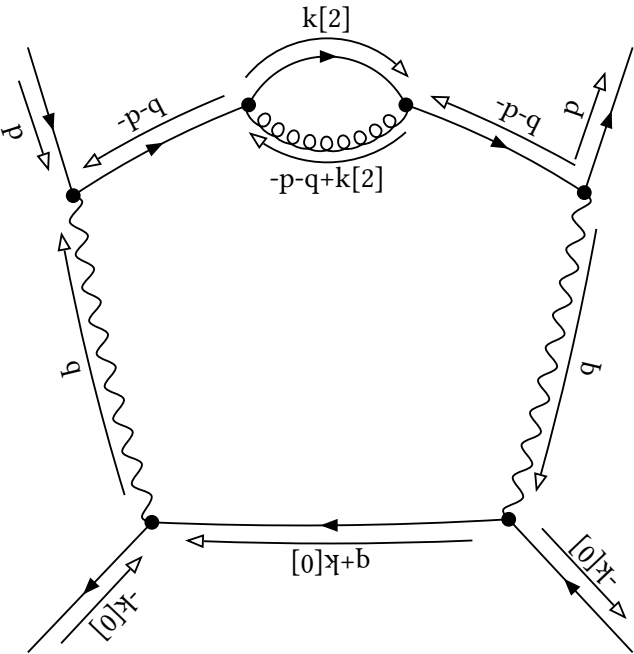
**initial**

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:

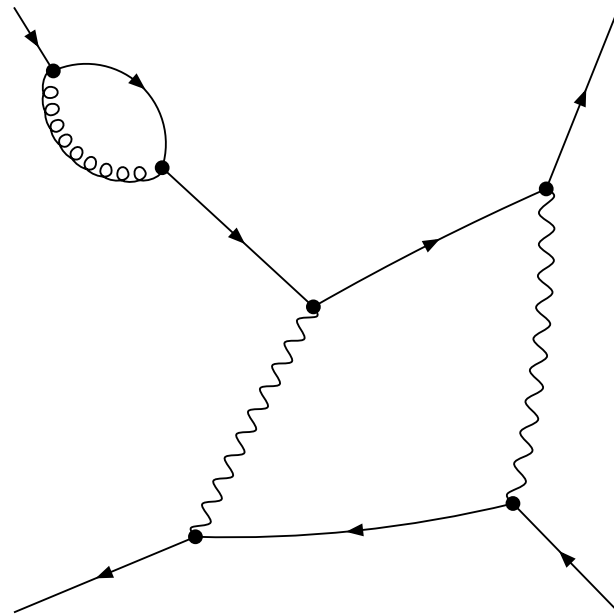
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-2} \text{prop}[0,k[2]]^{-1} \text{prop}[0,-p-q+k[2]]^{-1} \text{dot}[p,p]^{-1}$



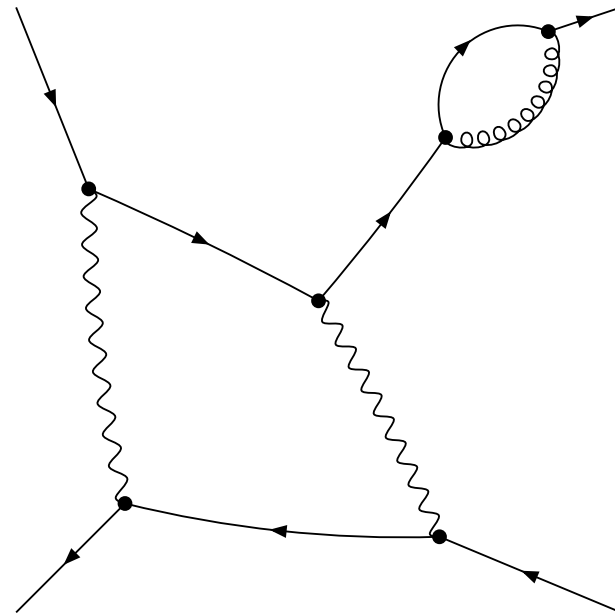
**final**

Denominator:

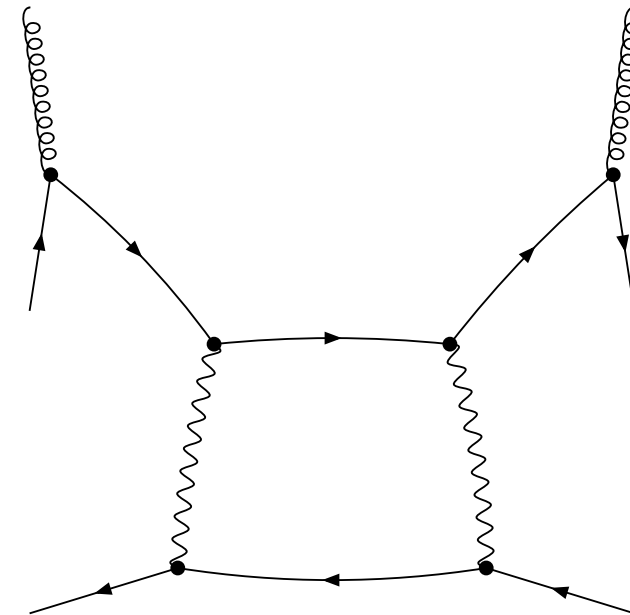
$\text{prop}[0, k[2]]^{-1} \text{prop}[0, -p]^{-2} \text{prop}[0, -p+q]^{-1} \text{prop}[0, -p+k[2]]^{-1}$



-1-14



-1-12



-1+9-10

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

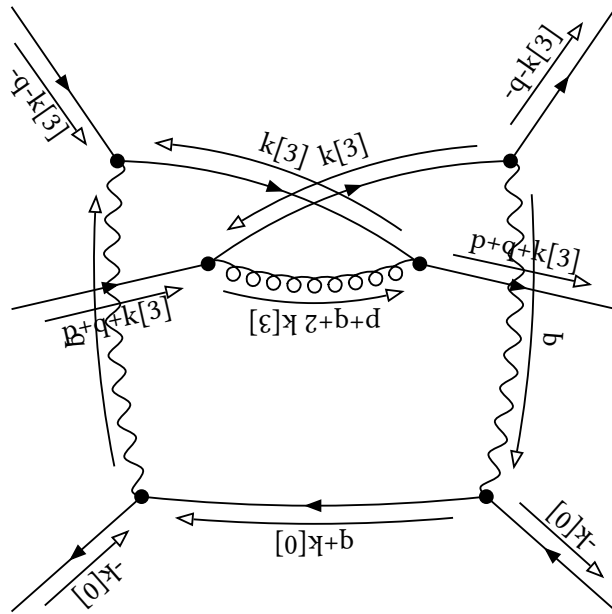
### initial

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:

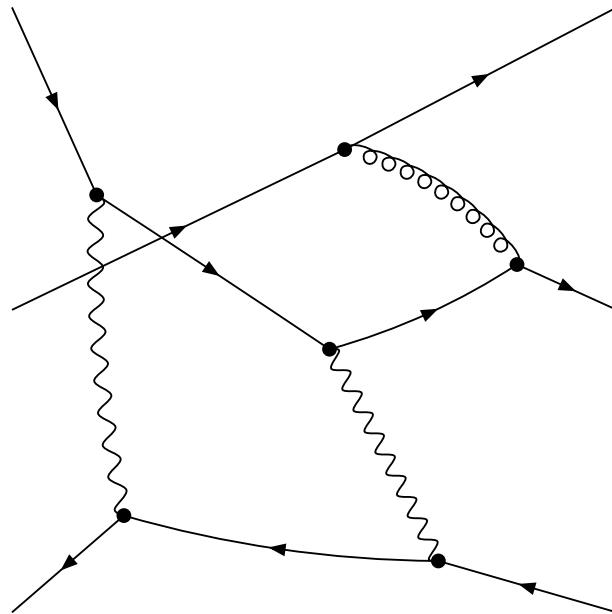
$$\begin{aligned} & -1/2 \ (1/2 \ \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \ \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p+q+k[3]]^{-1} \\ & + (1/2 \ \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \ \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0,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



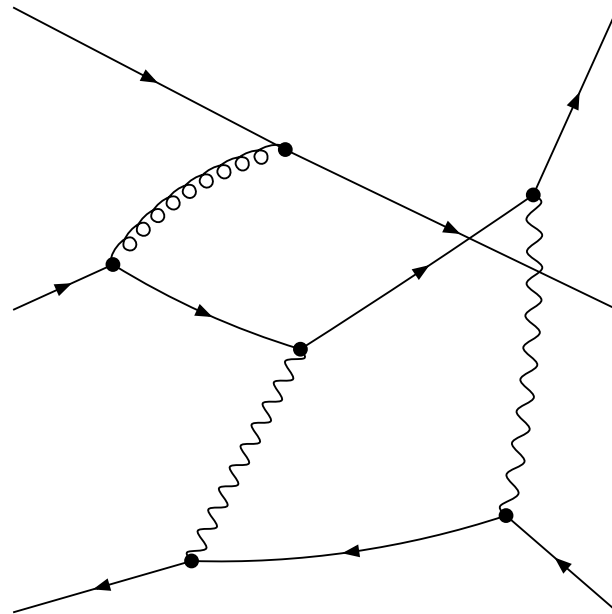
**final**

Denominator:

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



-1+9-12



-1+9-14



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

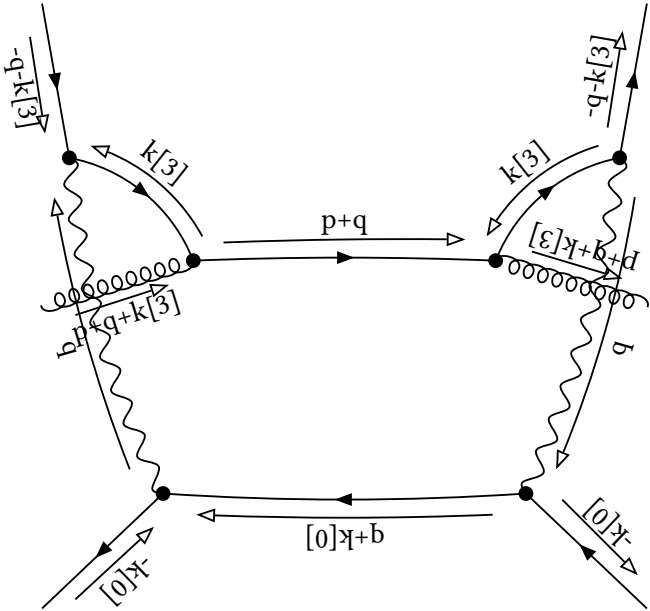
**initial**

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:

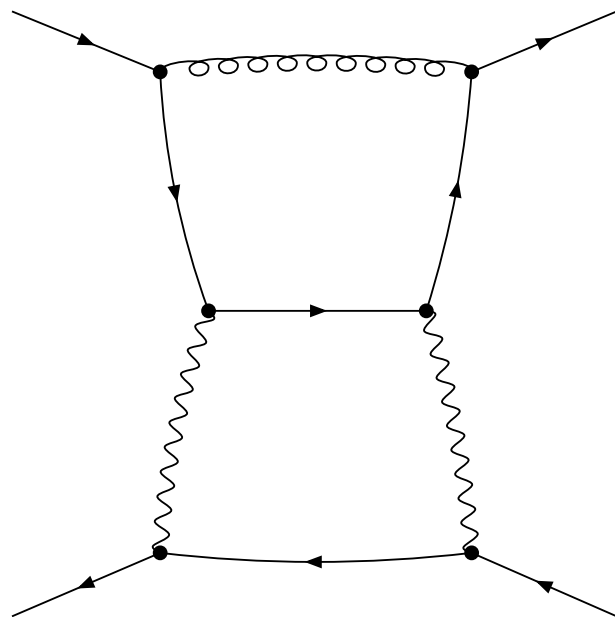
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p+q+k[3]]^{-1}$



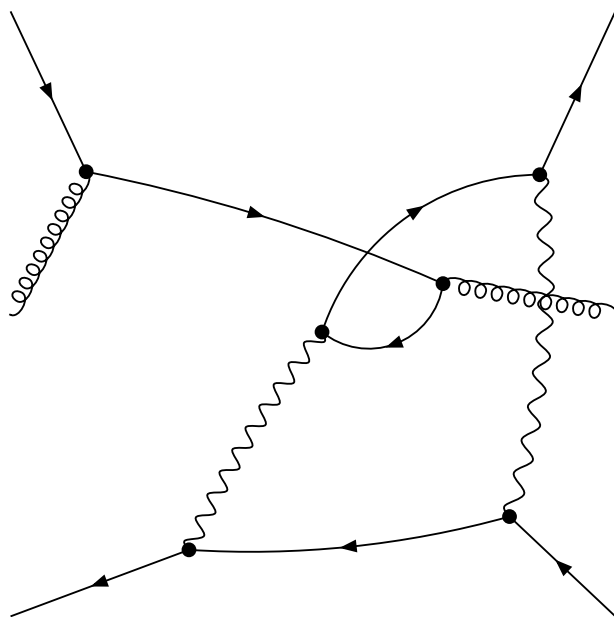
**final**

Denominator:

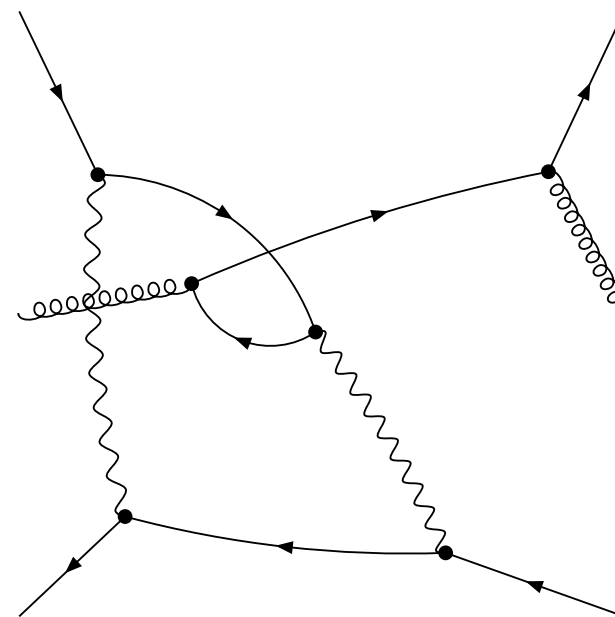
$\text{prop}[0,p]^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,p+k[3]]^{-1} \text{prop}[0,q+k[3]]^{-1}$



-1+9



-1+10-14



-1+10-12

embedding 6 [-1, 0, -1, 0]

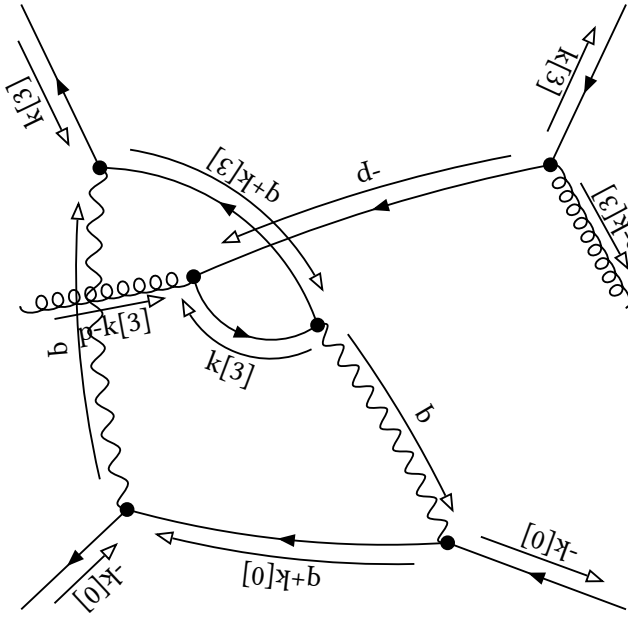
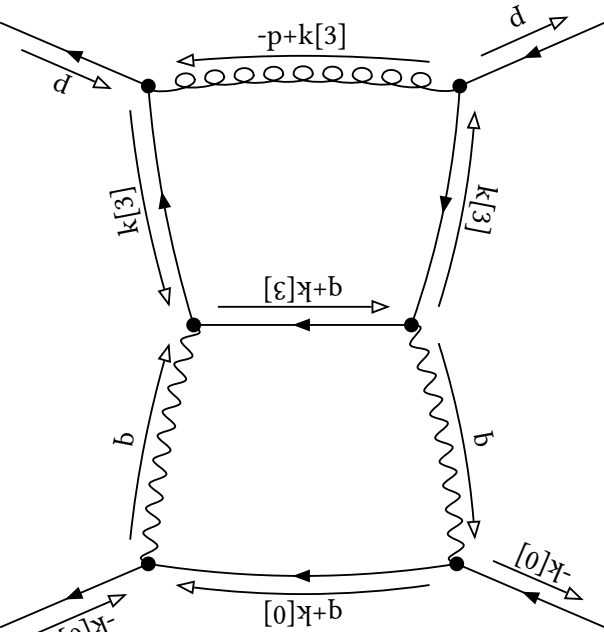
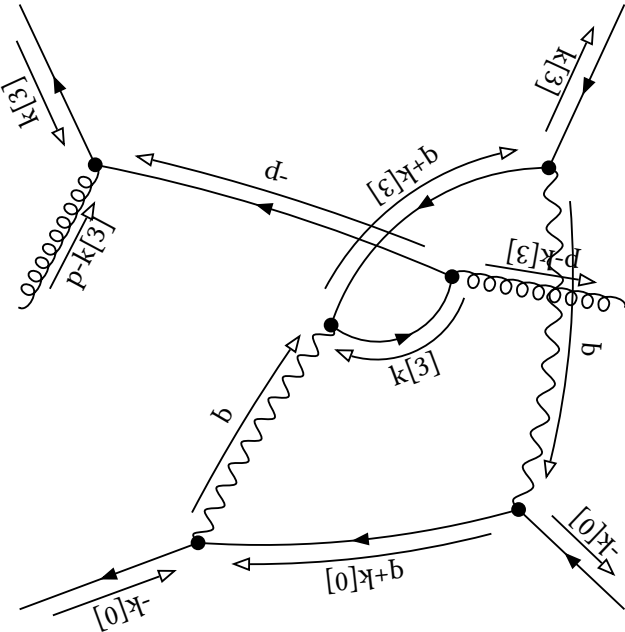
initial

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:

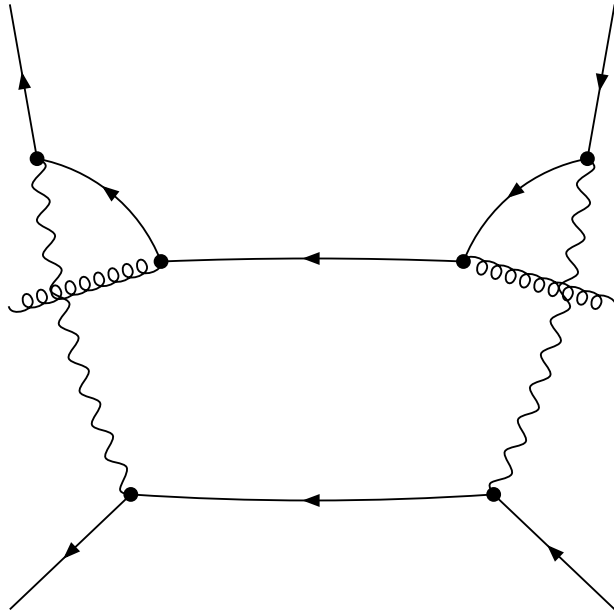
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,-p+k[3]]^{-1} \text{dot}[p,p]^{-1}$



**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 7 [-1, 0, -1, 1]

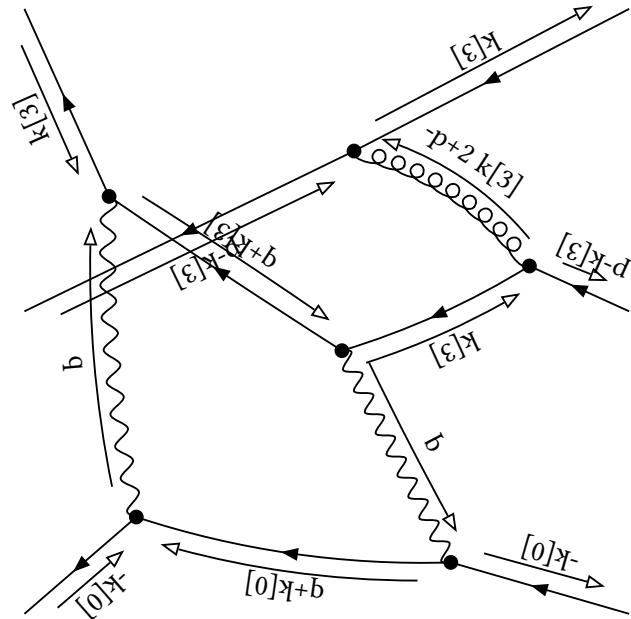
### initial

Denominator:

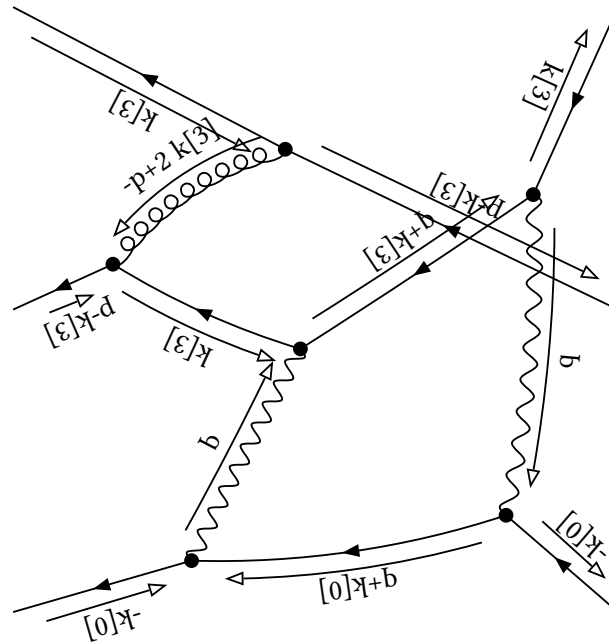
$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, -p+k[3]]^{-1} \text{prop}[0, -p+2 k[3]]^{-1}$$

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+14

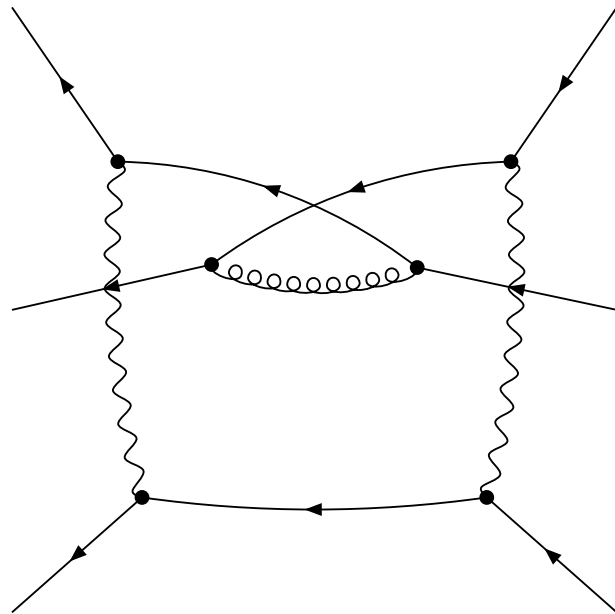


-3-9+12

**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 8 [-1, 0, 0, 1]

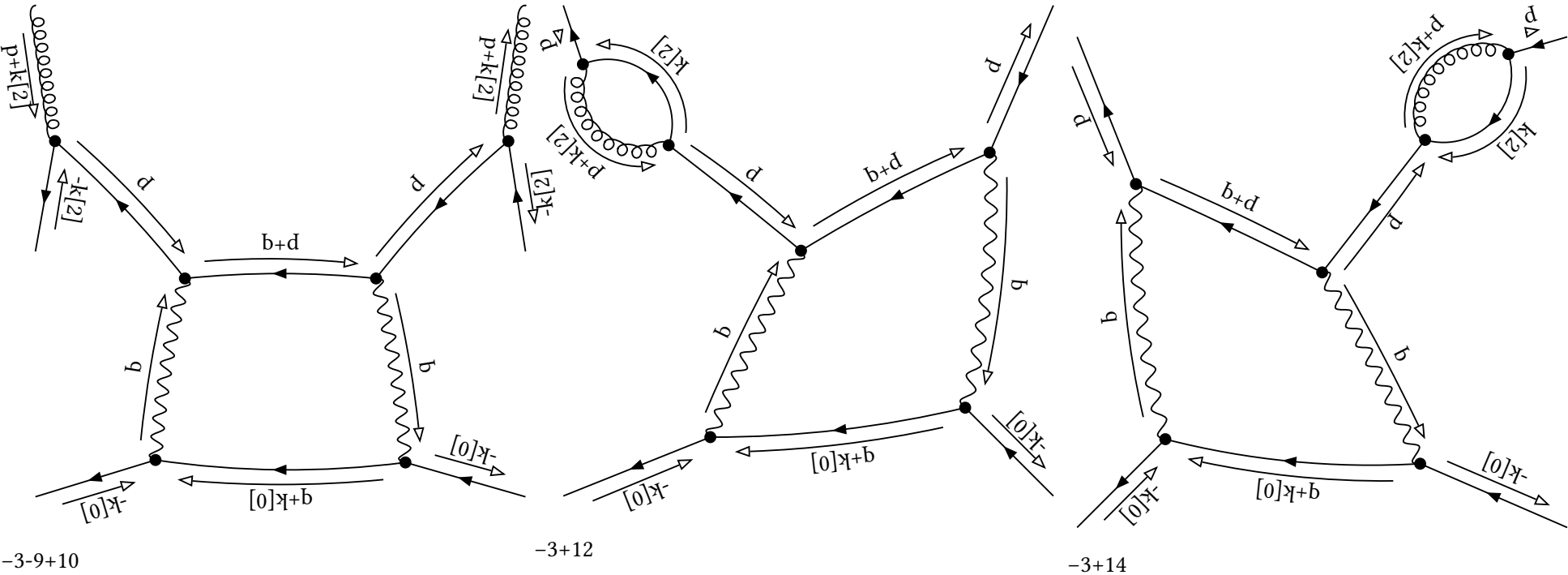
initial

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:

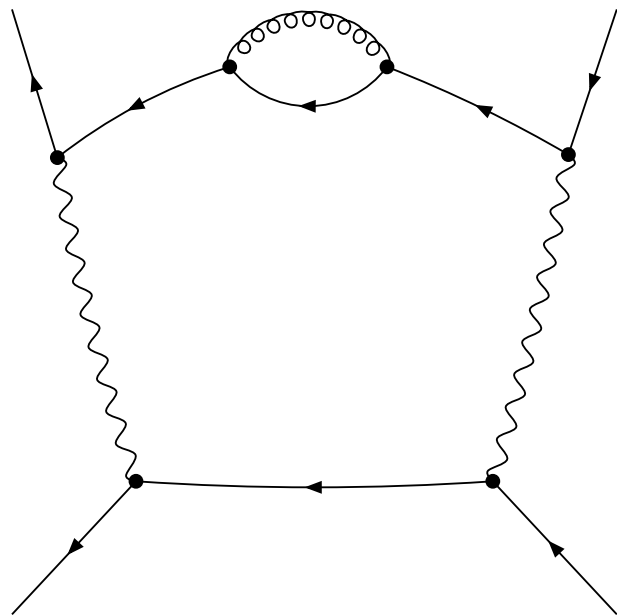
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,p+k[2]]^{-1} \text{dot}[p,p]^{-2}$



**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 9 [-1, 0, 1, 1]

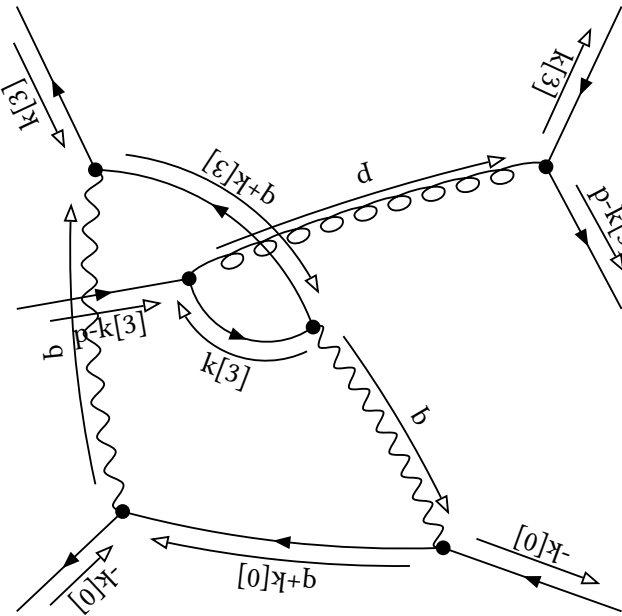
initial

Denominator:

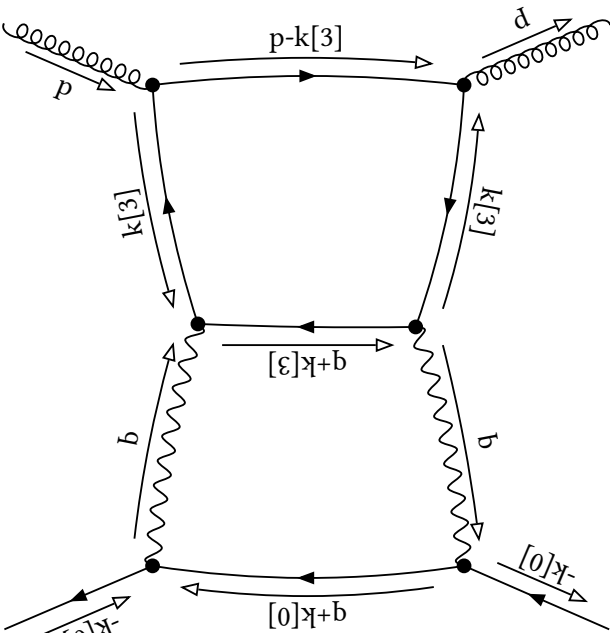
$\text{prop}[0,p]^{-1} \text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-k[3]]^{-1}$

Partial Fractioned Denominator:

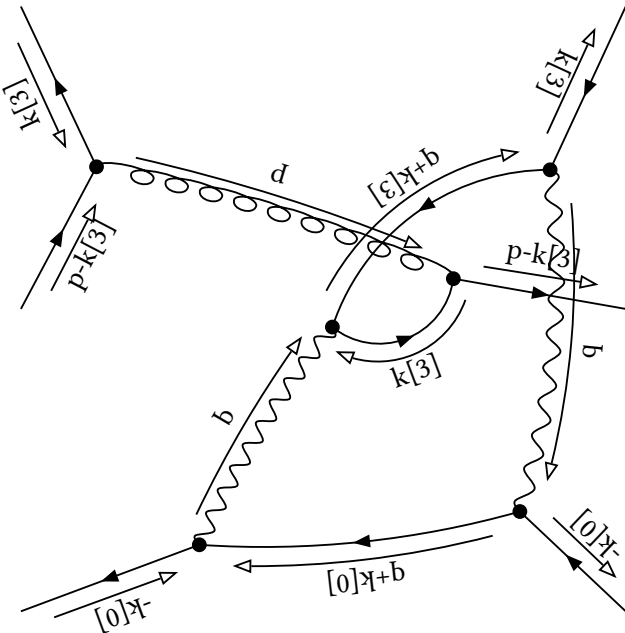
$\text{prop}[0,k[3]]^{-2} \text{prop}[0,q+k[3]]^{-1} \text{prop}[0,p-k[3]]^{-1} \text{dot}[p,p]^{-1}$



-3+9+14



-3+10

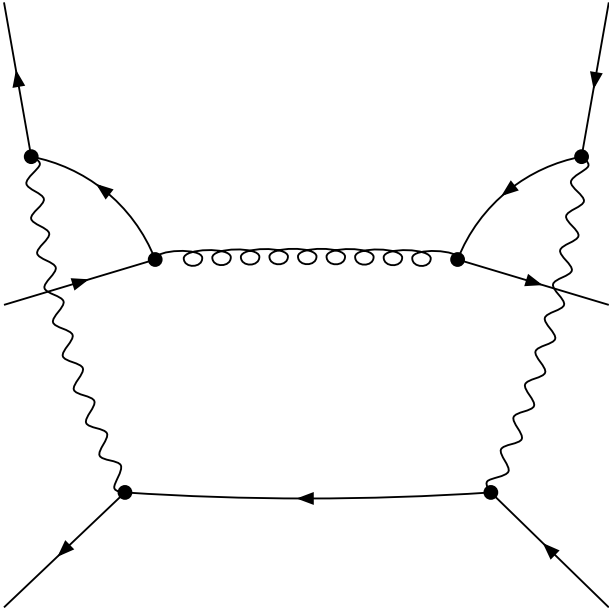


-3+9+12

**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 10 [-1, 0, 1, 2]

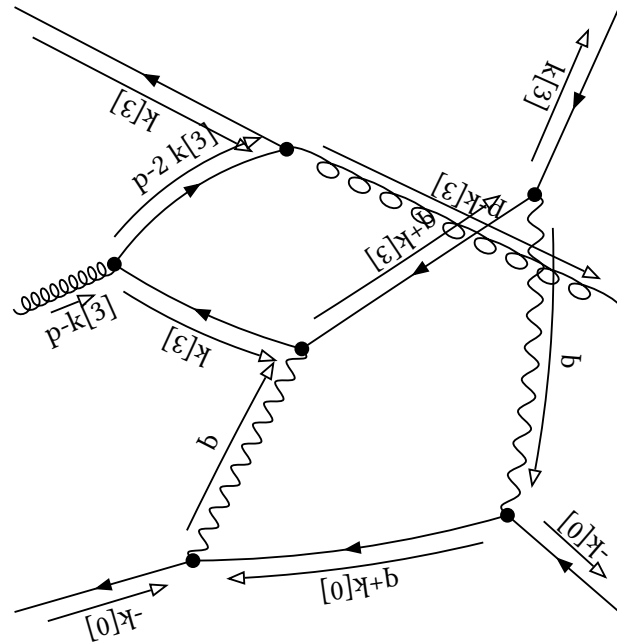
### initial

Denominator:

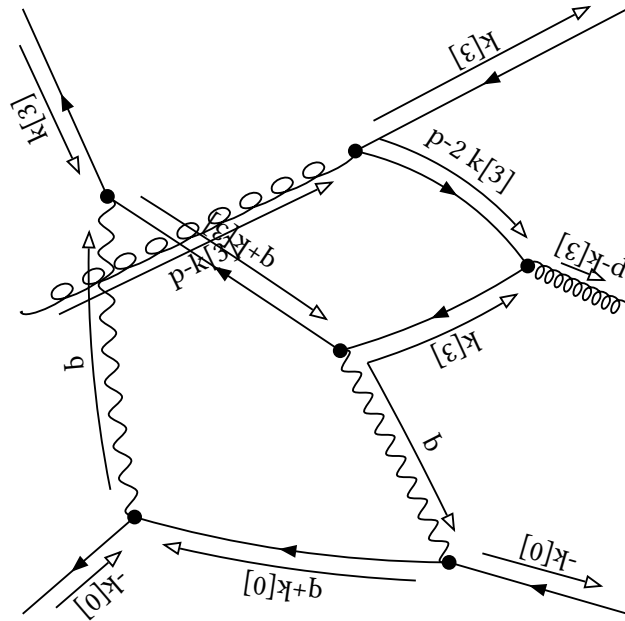
$$\text{prop}[0, k[3]]^{-2} \text{prop}[0, q+k[3]]^{-1} \text{prop}[0, p-k[3]]^{-1} \text{prop}[0, p-2 k[3]]^{-1}$$

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

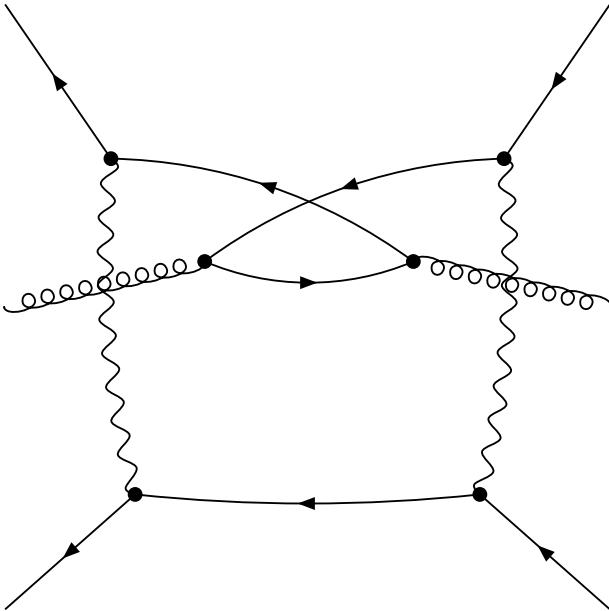


-3+10+14

**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

