

embedding 1 [1, -2, -3, -1]

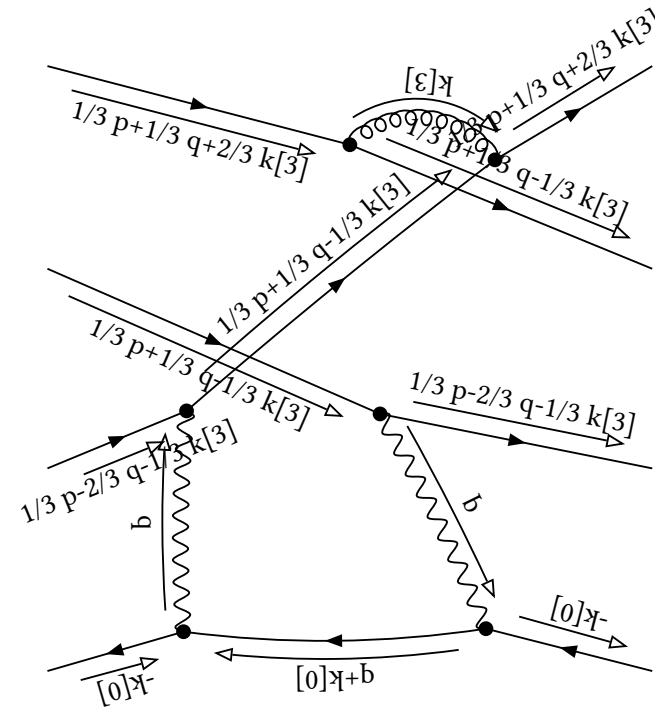
initial

Denominator:

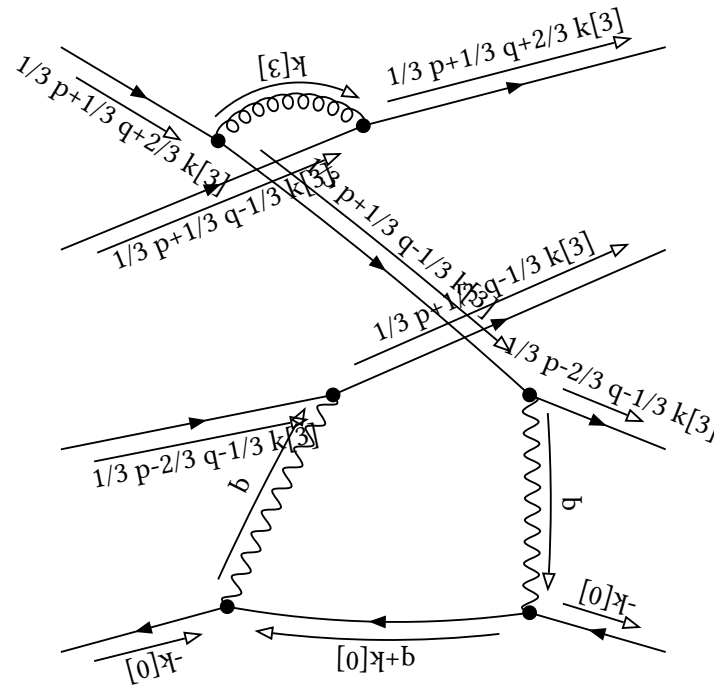
$$\text{prop}[0, k[3]]^{-1} \text{prop}[0, 1/3 p + 1/3 q + 2/3 k[3]]^{-1} \text{prop}[0, 1/3 p + 1/3 q - 1/3 k[3]]^{-2} \text{prop}[0, 1/3 p - 2/3 q - 1/3 k[3]]^{-1}$$

Partial Fractioned Denominator:

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



$$-3+9+13+17$$



$$-3+9+11+17$$

final

Denominator:

0

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

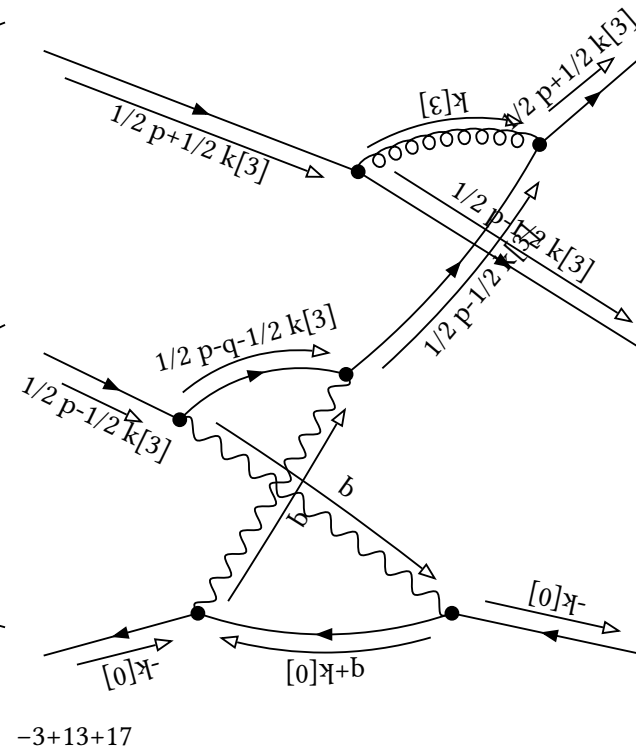
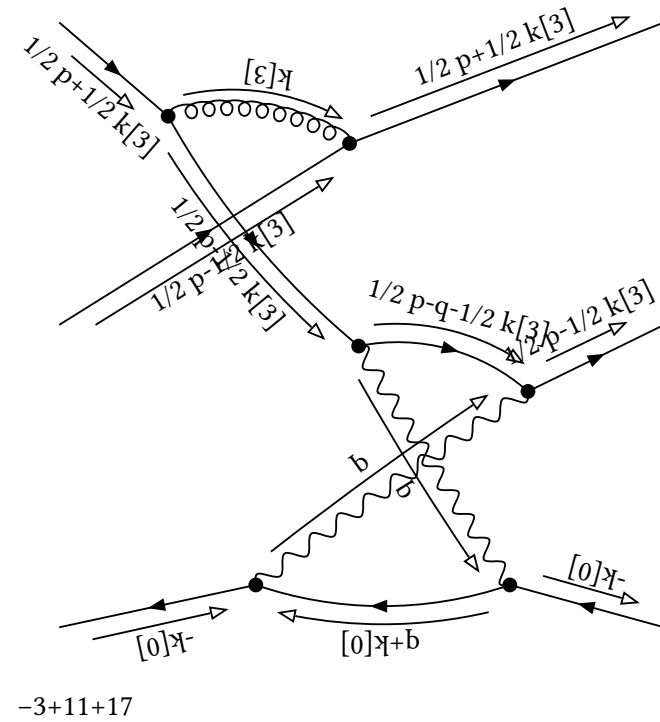
initial

Denominator:

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

Partial Fractioned Denominator:

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



final

Denominator:

0

embedding 3 [1, -2, -1, -1]

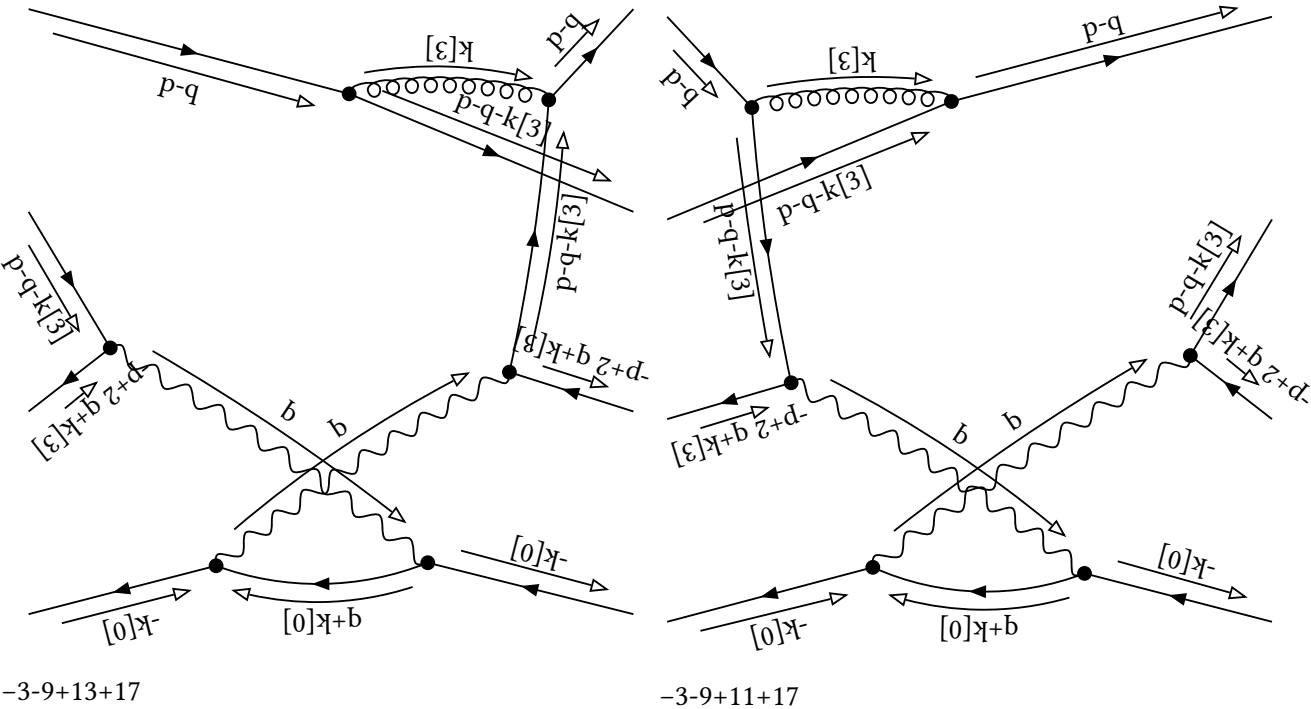
initial

Denominator:

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

Partial Fractioned Denominator:

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



final

Denominator:

0

embedding 4 $[1, -1, -3, -1]$

initial

Denominator:

0

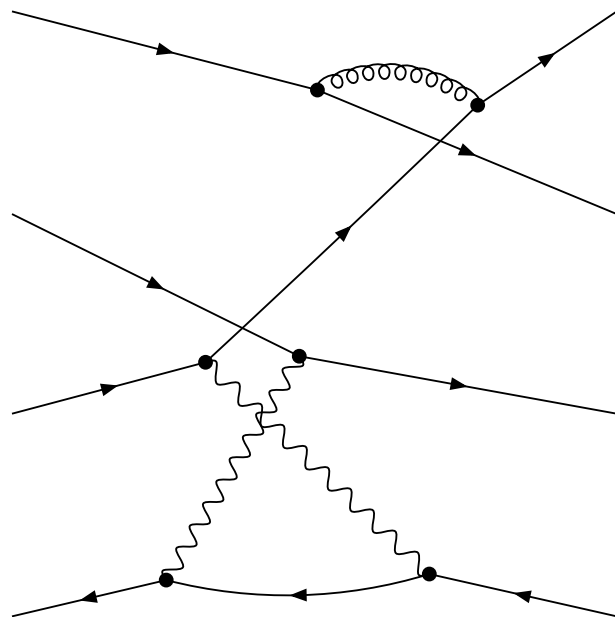
Partial Fractioned Denominator:

0

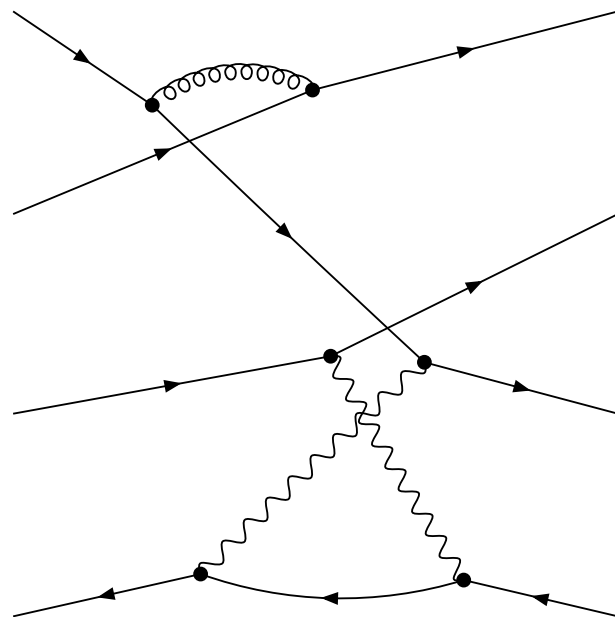
final

Denominator:

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



$-1+9+13+17$



$-1+9+11+17$

embedding 5 [1, -1, -2, -2]

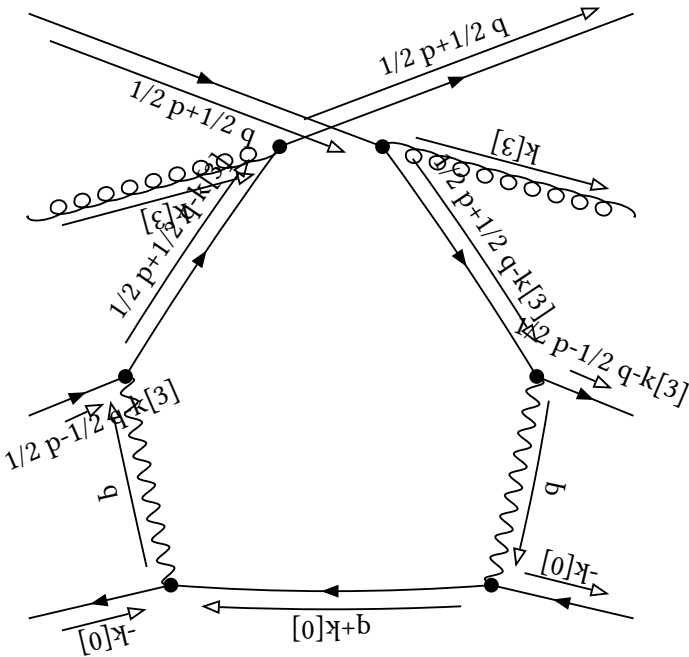
initial

Denominator:

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

Partial Fractioned Denominator:

$(1/4 \ \text{dot}[p,p]+1/2 \ \text{dot}[p,q]+1/4 \ \text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,1/2 \ p+1/2 \ q-k[3]]^{-2} \text{prop}[0,1/2 \ p-1/2 \ q-k[3]]^{-1}$



final

Denominator:

0

embedding 6 [1, -1, -2, -1]

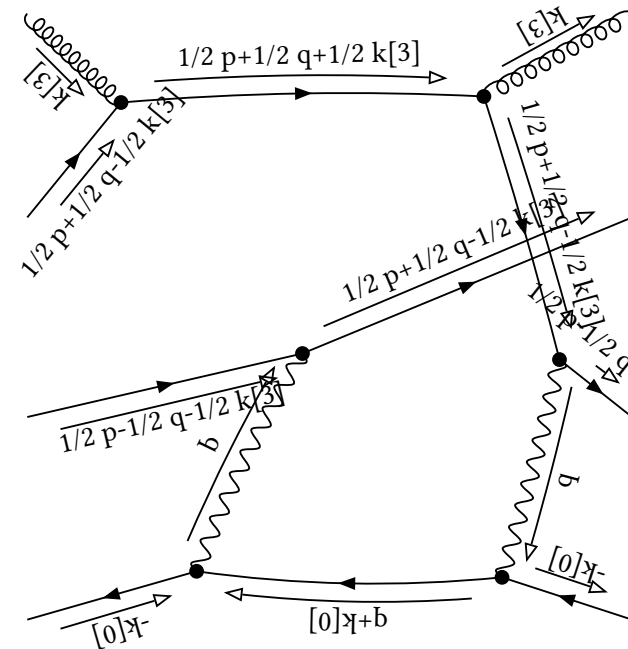
initial

Denominator:

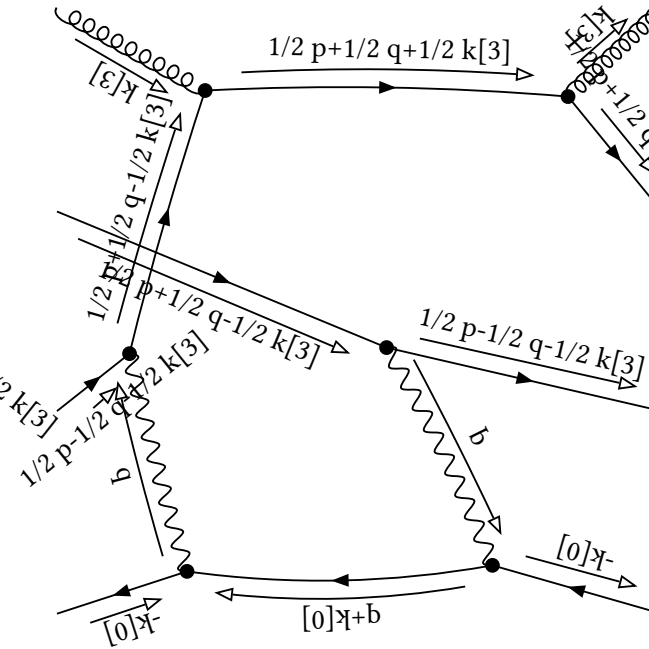
$$\text{prop}[0, k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q + 1/2 k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q - 1/2 k[3]]^{-2} \text{prop}[0, 1/2 p - 1/2 q - 1/2 k[3]]^{-1}$$

Partial Fractioned Denominator:

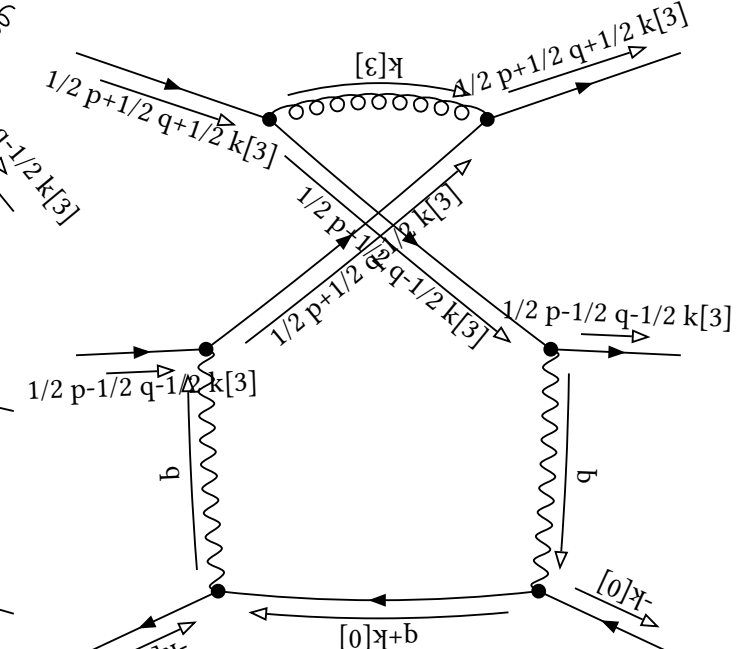
$$\begin{aligned} & (1/2 \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q + 1/2 k[3]]^{-1} \text{prop}[0, 1/2 p - 1/2 q - 1/2 k[3]]^{-1} \\ & + (1/2 \text{dot}[p, p] + \text{dot}[p, q] + 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1}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



-3+9+11+14



-3+9+13+14

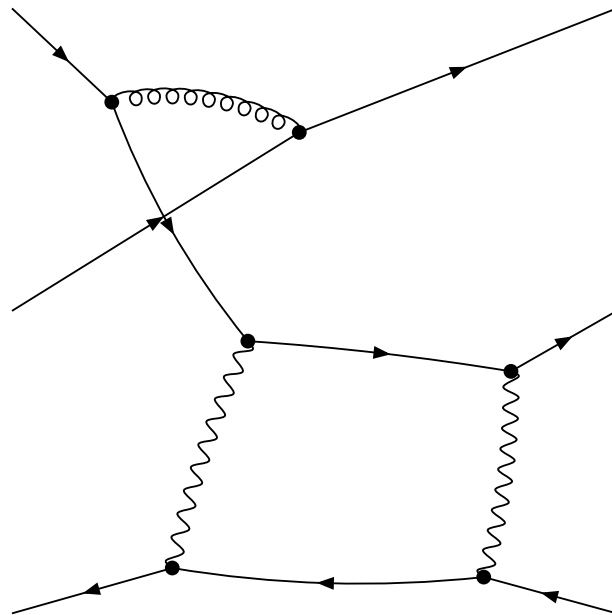


-3+9+17

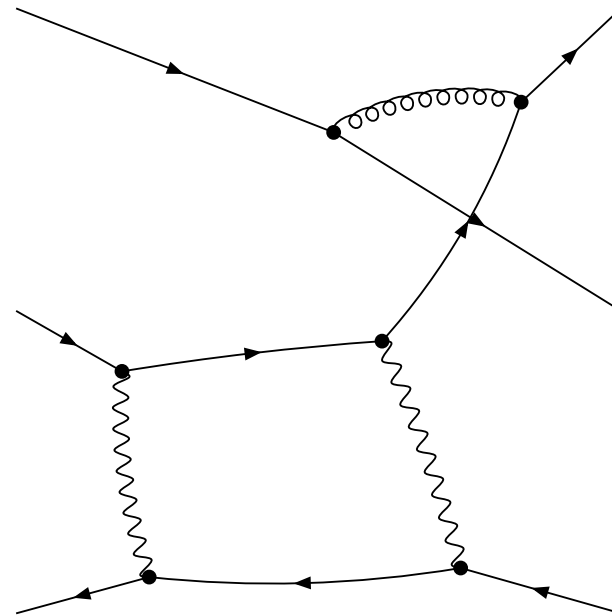
final

Denominator:

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



-1+11+17



-1+13+17

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

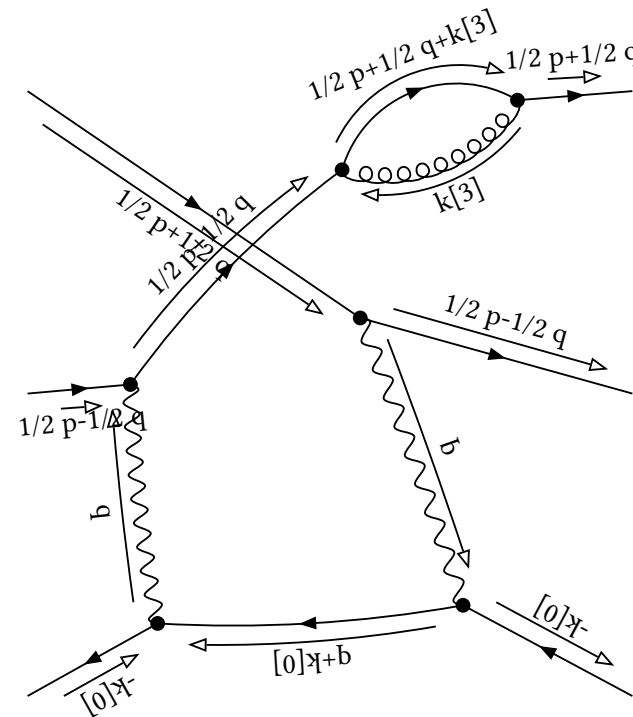
initial

Denominator:

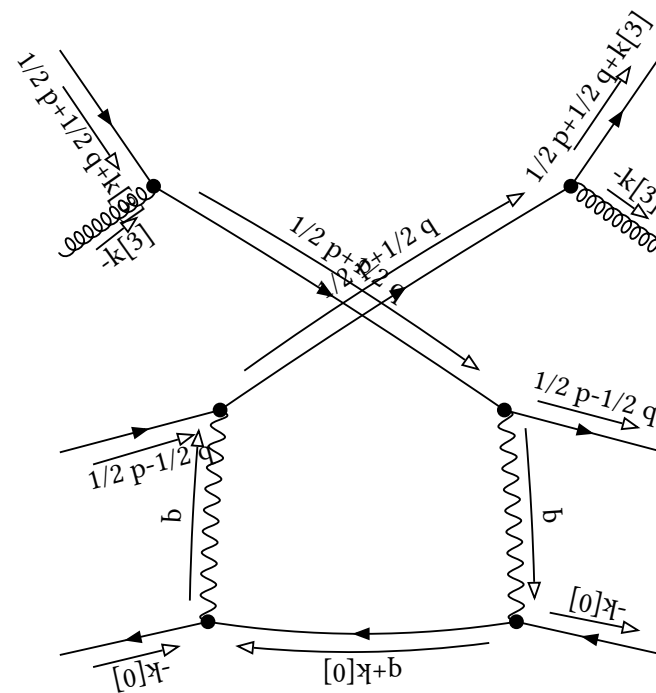
$$\text{prop}[0, k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q]^{-2} \text{prop}[0, 1/2 p - 1/2 q]^{-1} \text{prop}[0, 1/2 p + 1/2 q + k[3]]^{-1}$$

Partial Fractioned Denominator:

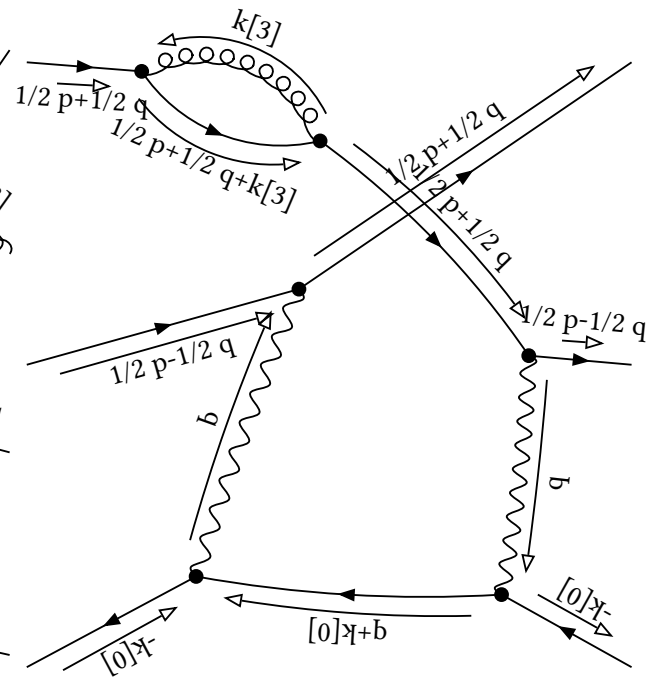
$$(1/4 \text{dot}[p, p] - 1/2 \text{dot}[p, q] + 1/4 \text{dot}[q, q])^{-1} (1/4 \text{dot}[p, p] + 1/2 \text{dot}[p, q] + 1/4 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q + k[3]]^{-1}$$



-3+9+13



-3+9-14+17



-3+9+11

final

Denominator:

0

embedding 8 [1, -1, -2, 1]

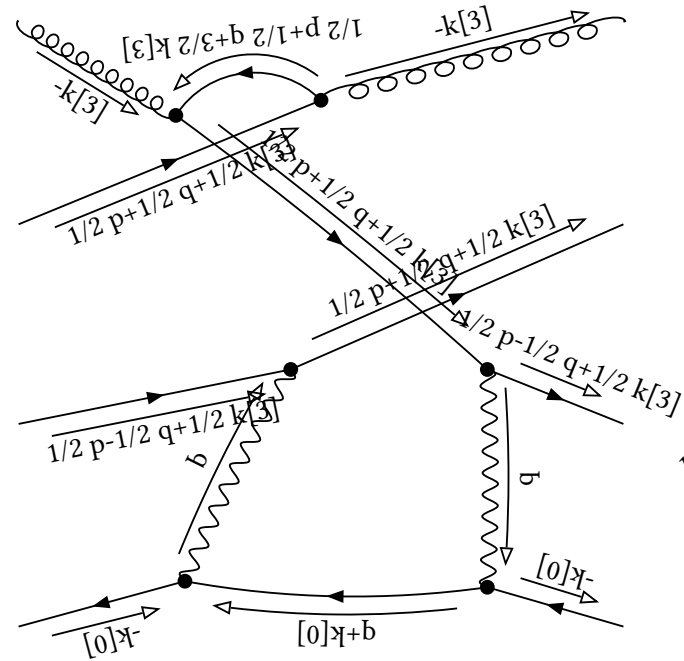
initial

Denominator:

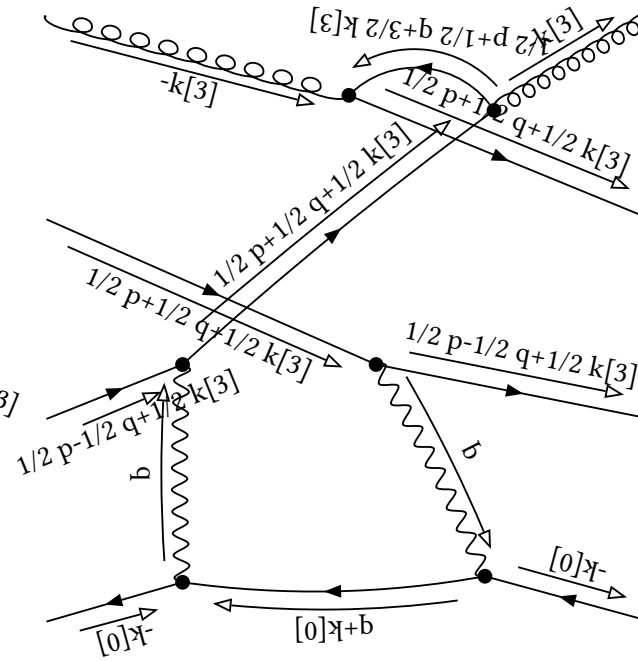
$$\text{prop}[0, k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q + 1/2 k[3]]^{-2} \text{prop}[0, 1/2 p + 1/2 q + 3/2 k[3]]^{-1} \text{prop}[0, 1/2 p - 1/2 q + 1/2 k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & -3 \left(-1/2 \text{dot}[p, p] - \text{dot}[p, q] - 1/2 \text{dot}[q, q] \right)^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q + 1/2 k[3]]^{-1} \text{prop}[0, 1/2 p - 1/2 q + 1/2 k[3]]^{-1} \\ & + 9 \left(-1/2 \text{dot}[p, p] - \text{dot}[p, q] - 1/2 \text{dot}[q, q] \right)^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q + 3/2 k[3]]^{-1} \text{prop}[0, 1/2 p - 1/2 q + 1/2 k[3]]^{-1} \\ & + 9/2 \left(-1/2 \text{dot}[p, p] - \text{dot}[p, q] - 1/2 \text{dot}[q, q] \right)^{-2} \text{prop}[0, 1/2 p + 1/2 q + 1/2 k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q + 3/2 k[3]]^{-1} \text{prop}[0, 1/2 p - 1/2 q + 1/2 k[3]]^{-1} \\ & + \left(-1/2 \text{dot}[p, p] - \text{dot}[p, q] - 1/2 \text{dot}[q, q] \right)^{-1} \text{prop}[0, k[3]]^{-1} \text{prop}[0, 1/2 p + 1/2 q + 1/2 k[3]]^{-2} \text{prop}[0, 1/2 p - 1/2 q + 1/2 k[3]]^{-1} \\ & - 3/2 \left(-1/2 \text{dot}[p, p] - \text{dot}[p, q] - 1/2 \text{dot}[q, q] \right)^{-1} \text{prop}[0, 1/2 p + 1/2 q + 1/2 k[3]]^{-2} \text{prop}[0, 1/2 p + 1/2 q + 3/2 k[3]]^{-1} \text{prop}[0, 1/2 p - 1/2 q + 1/2 k[3]]^{-1} \end{aligned}$$



$$-3+9+11-14$$



$$-3+9+13-14$$

final

Denominator:

0

embedding 9 [1, -1, -1, -2]

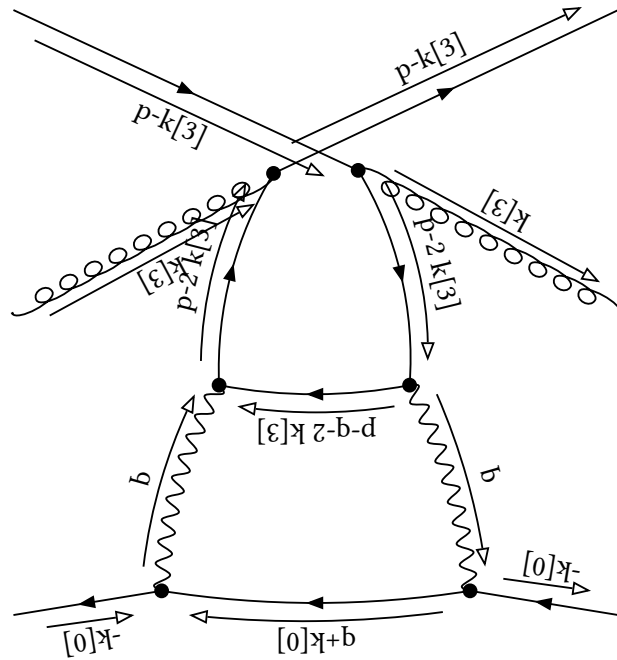
initial

Denominator:

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

Partial Fractioned Denominator:

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



-3+14+17

final

Denominator:

0

embedding 10 [1, -1, -1, -1]

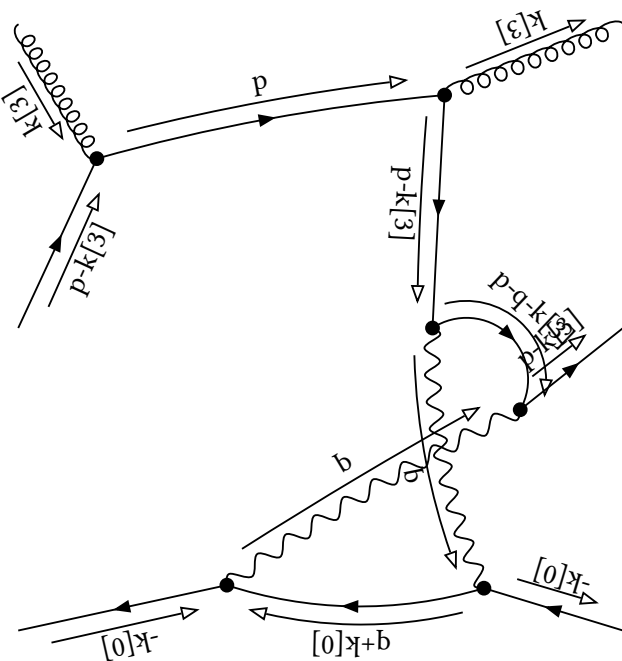
initial

Denominator:

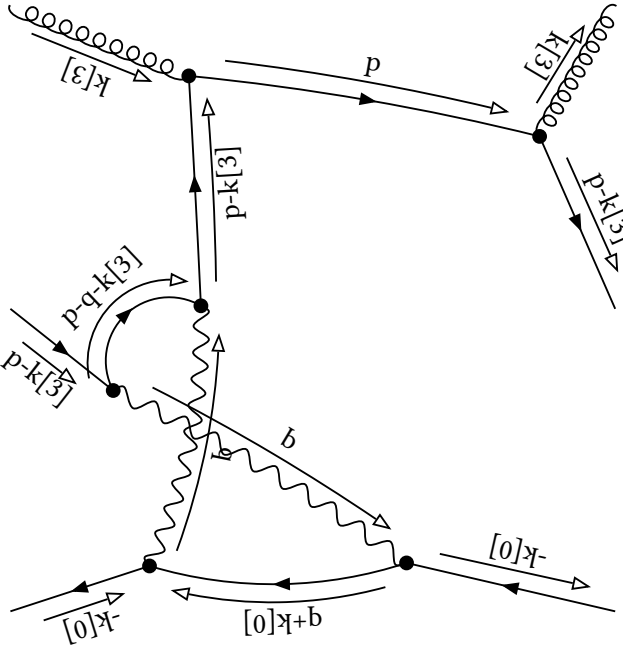
$\text{prop}[0,p]^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,p-k[3]]^{-2} \text{prop}[0,p-q-k[3]]^{-1}$

Partial Fractioned Denominator:

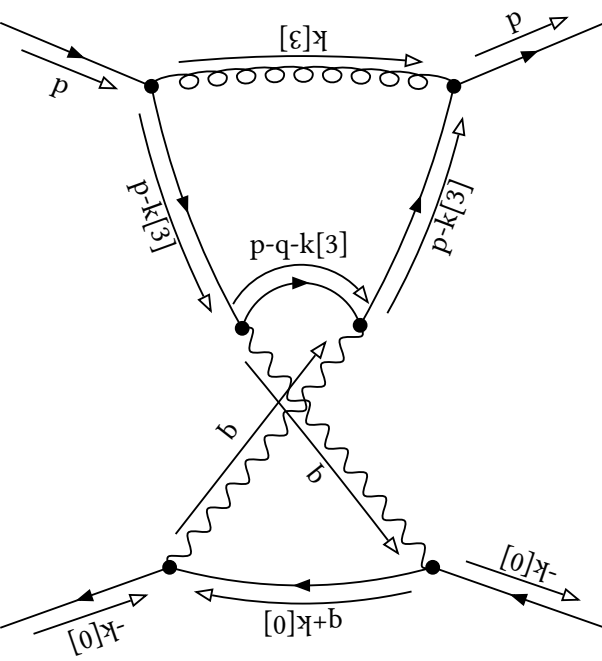
$\text{prop}[0,k[3]]^{-1} \text{prop}[0,p-k[3]]^{-2} \text{prop}[0,p-q-k[3]]^{-1} \text{dot}[p,p]^{-1}$



-3+11+14



-3+13+14

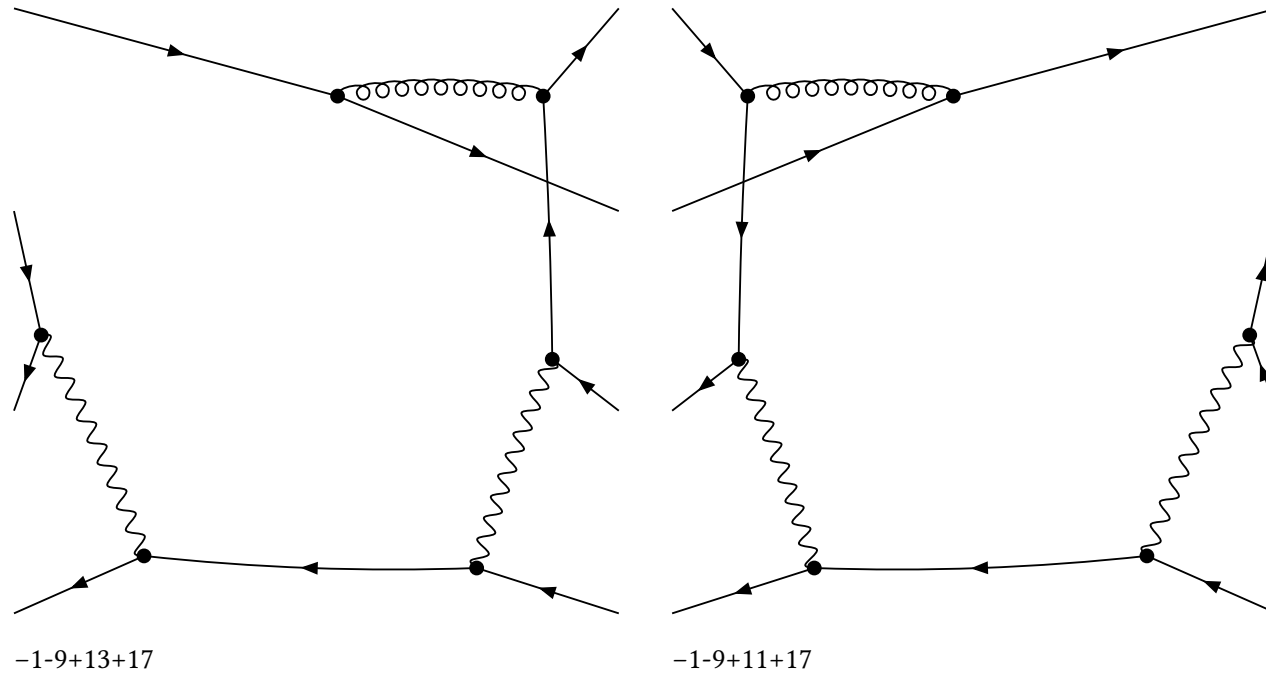


-3+17

final

Denominator:

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



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

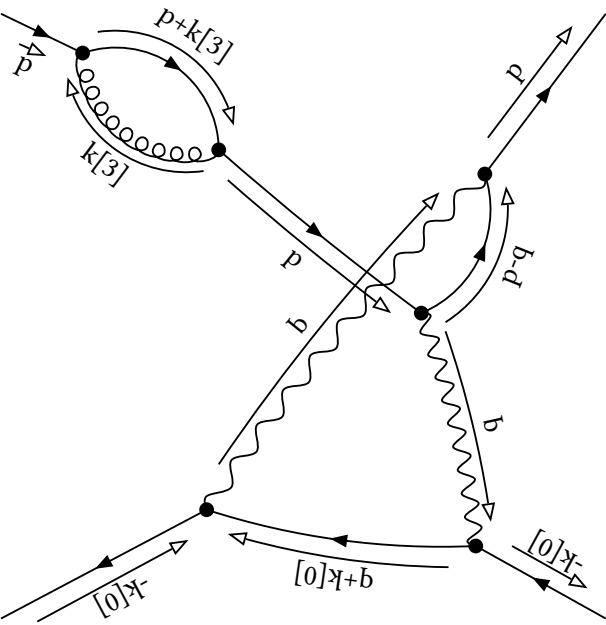
initial

Denominator:

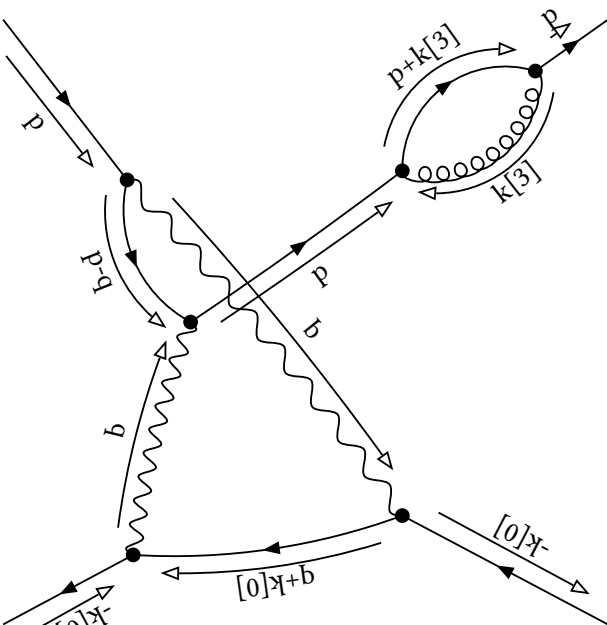
$\text{prop}[0,p]^{-2} \text{prop}[0,k[3]]^{-1} \text{prop}[0,p+k[3]]^{-1} \text{prop}[0,p-q]^{-1}$

Partial Fractioned Denominator:

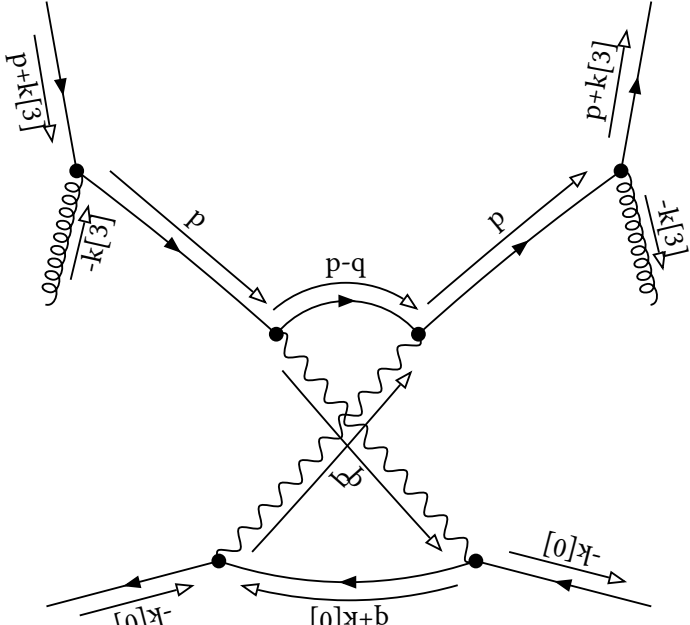
$(\text{dot}[p,p]-2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,p+k[3]]^{-1} \text{dot}[p,p]^{-2}$



-3+11



-3+13



-3-14+17

final

Denominator:

0

embedding 12 [1, -1, -1, 1]

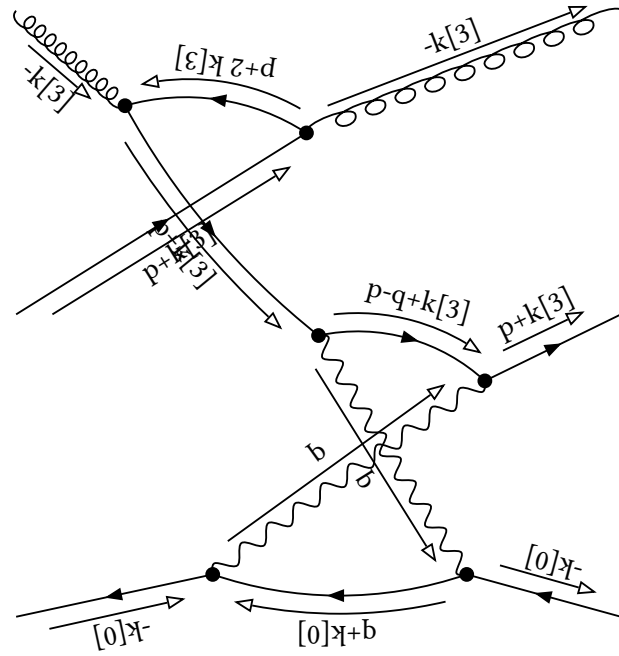
initial

Denominator:

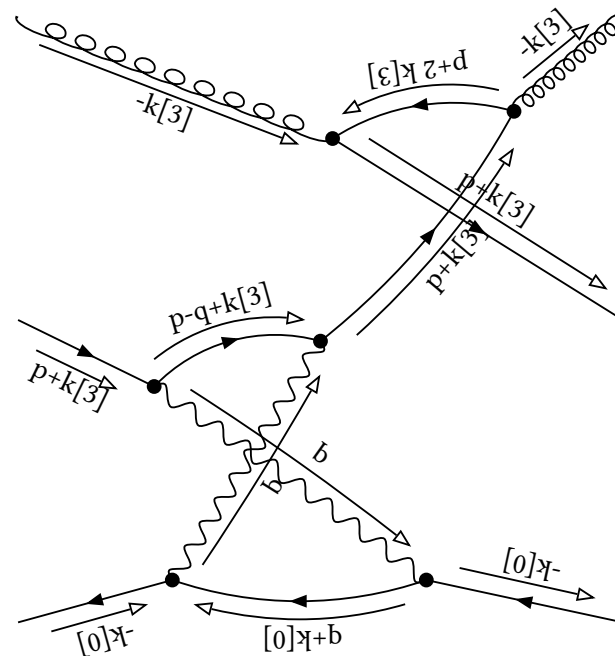
$$\text{prop}[0, k[3]]^{-1} \text{prop}[0, p+k[3]]^{-2} \text{prop}[0, p+2 \ k[3]]^{-1} \text{prop}[0, p-q+k[3]]^{-1}$$

Partial Fractioned Denominator:

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



-3+11-14



-3+13-14

final

Denominator:

0

embedding 13 [1, -1, 0, -2]

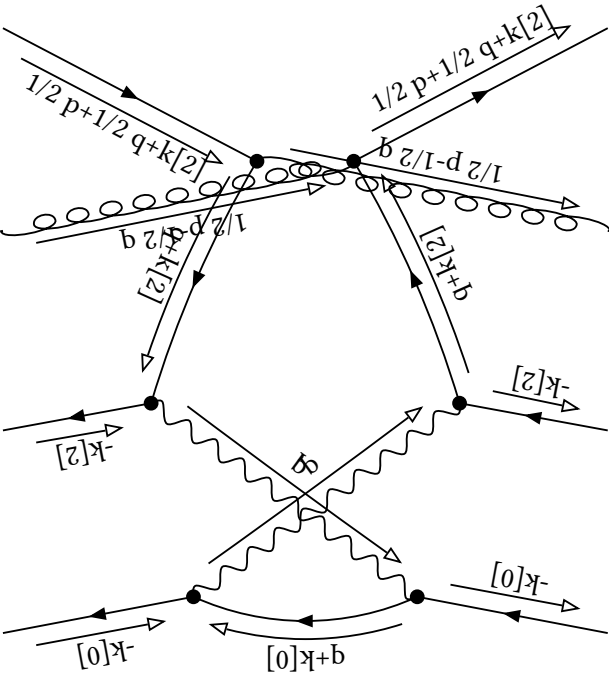
initial

Denominator:

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

Partial Fractioned Denominator:

$(1/4 \ \text{dot}[p,p]-1/2 \ \text{dot}[p,q]+1/4 \ \text{dot}[q,q])^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,1/2 \ p+1/2 \ q+k[2]]^{-1}$



$-3-9+14+17$

final

Denominator:

0

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

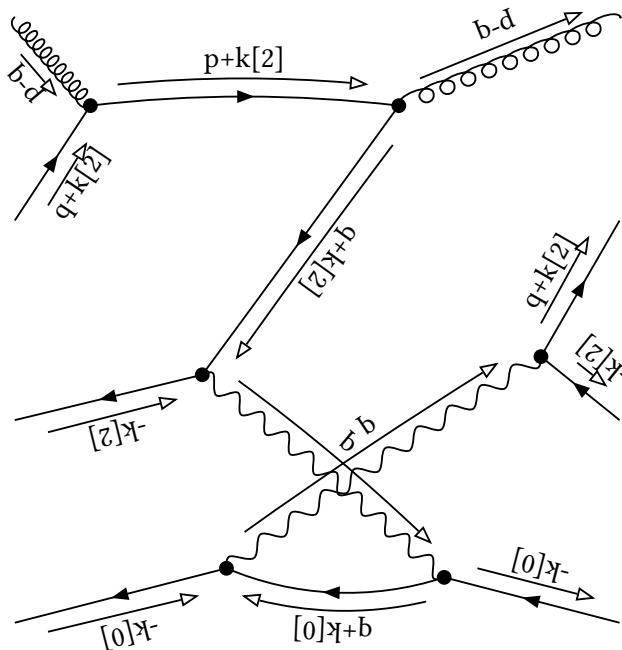
initial

Denominator:

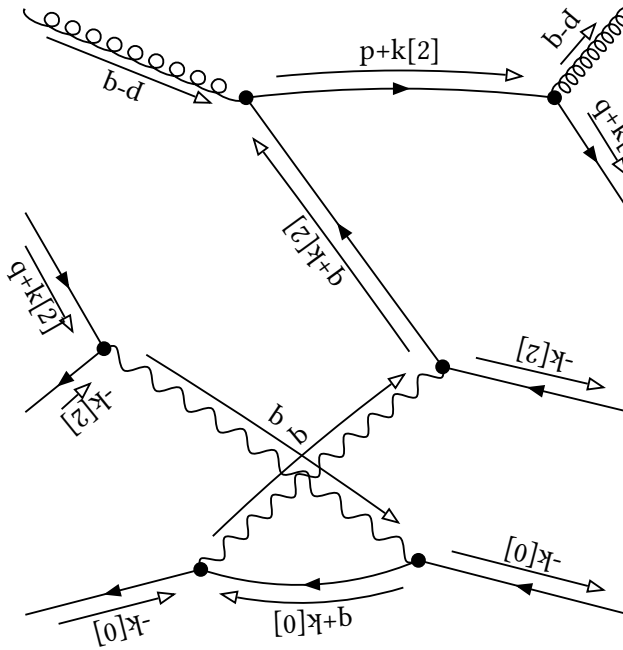
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,p+k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,p-q]^{-1}$

Partial Fractioned Denominator:

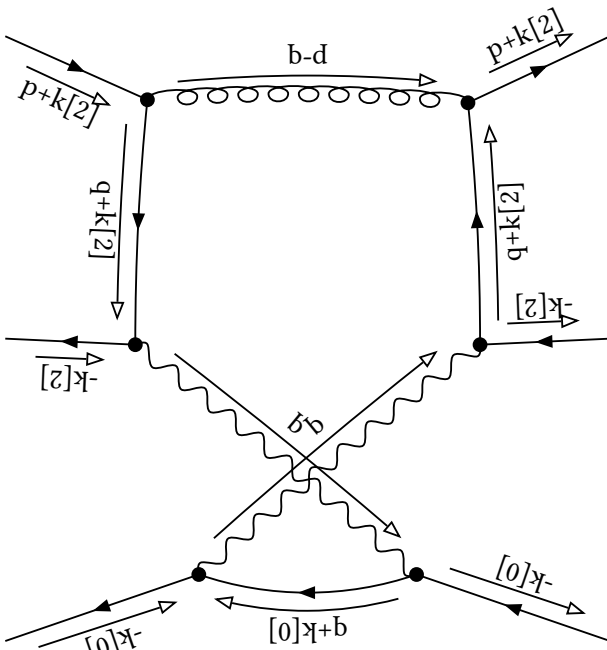
$(\text{dot}[p,p]-2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,p+k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2}$



$-3-9+11+14$



$-3-9+13+14$



$-3-9+17$

final

Denominator:

0

embedding 15 [1, -1, 0, 0]

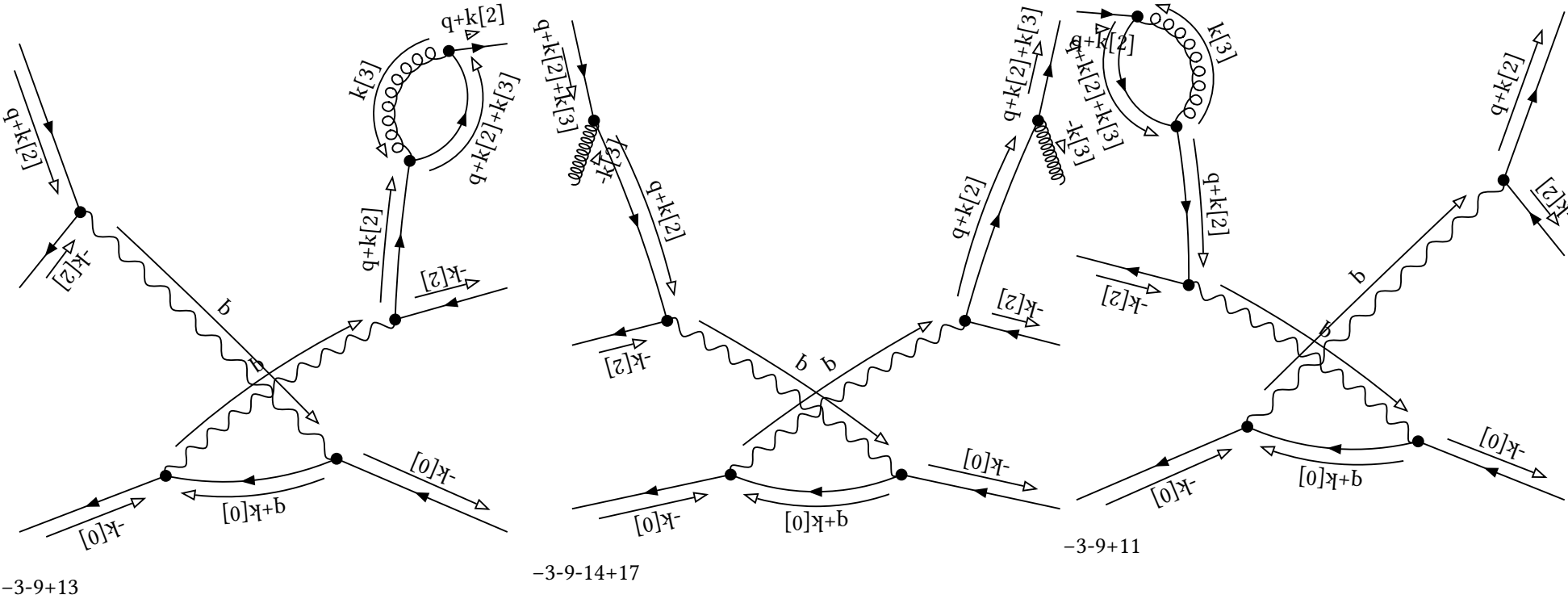
initial

Denominator:

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

Partial Fractioned Denominator:

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



final

Denominator:

0

embedding 16 [1, -1, 0, 1]

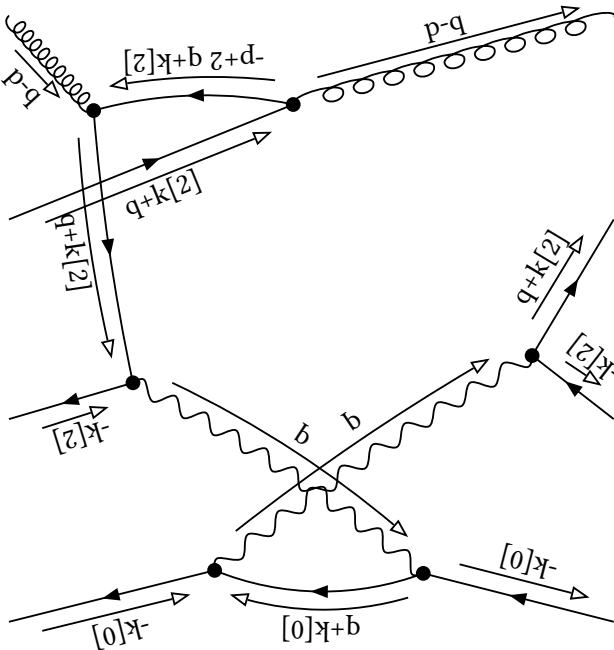
initial

Denominator:

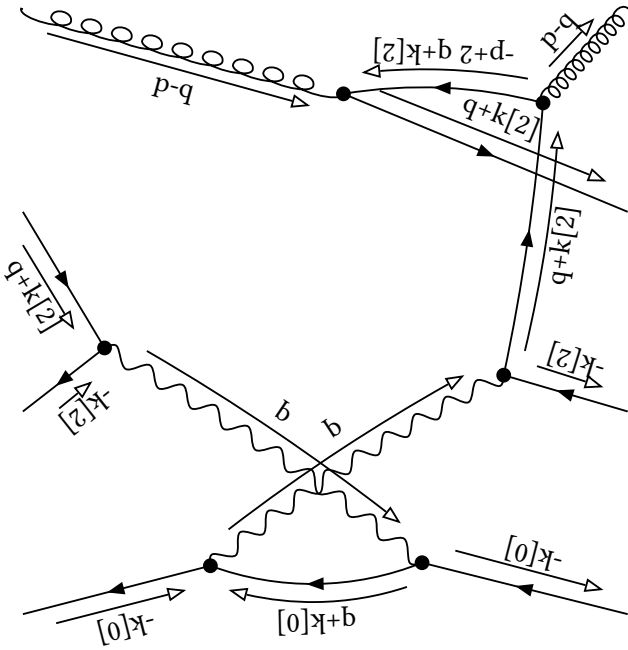
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,-p+q]^{-1} \text{prop}[0,-p+2 \ q+k[2]]^{-1}$

Partial Fractioned Denominator:

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



-3-9+11-14



-3-9+13-14

final

Denominator:

0

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

initial

Denominator:

0

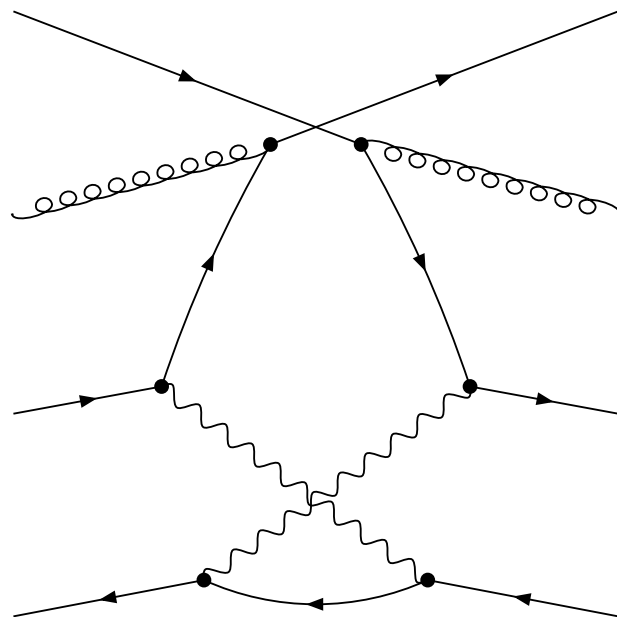
Partial Fractioned Denominator:

0

final

Denominator:

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



$$-1+9+14+17$$

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

initial

Denominator:

0

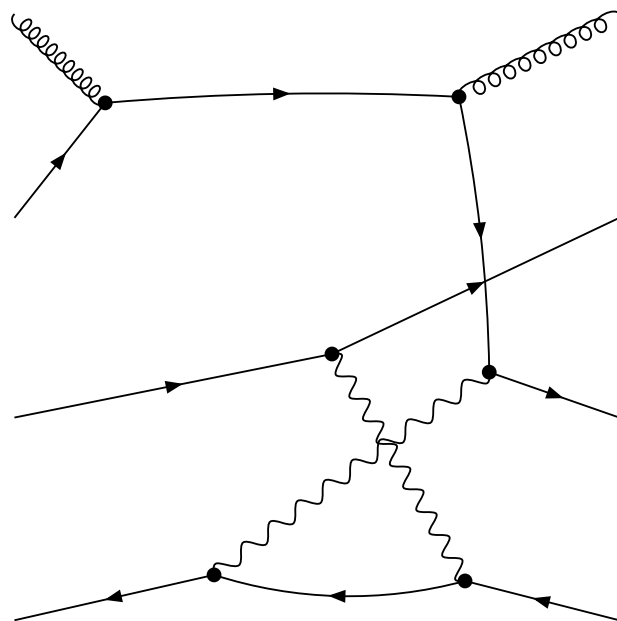
Partial Fractioned Denominator:

0

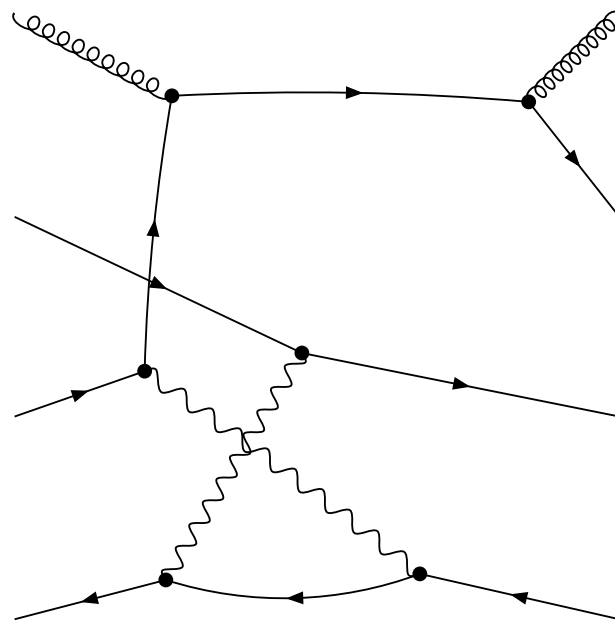
final

Denominator:

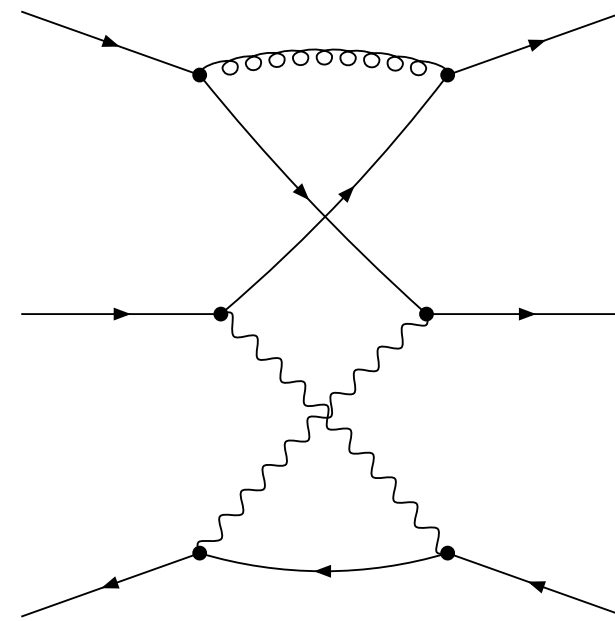
$\text{prop}[0,k[3]]^{-1} \text{prop}[0,1/2 \ p+1/2 \ q+1/2 \ k[3]]^{-1} \text{prop}[0,1/2 \ p+1/2 \ q-1/2 \ k[3]]^{-2} \text{prop}[0,1/2 \ p-1/2 \ q-1/2 \ k[3]]^{-1}$



$-1+9+11+14$



$-1+9+13+14$



$-1+9+17$

embedding 19 [1, 0, -2, 0]

initial

Denominator:

0

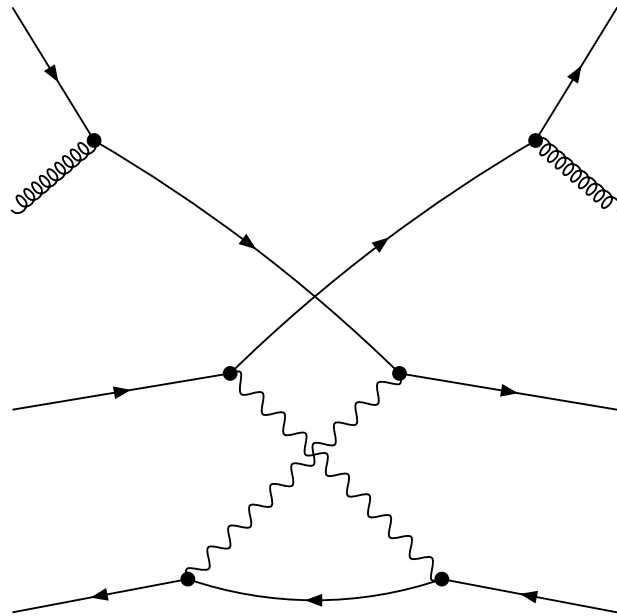
Partial Fractioned Denominator:

0

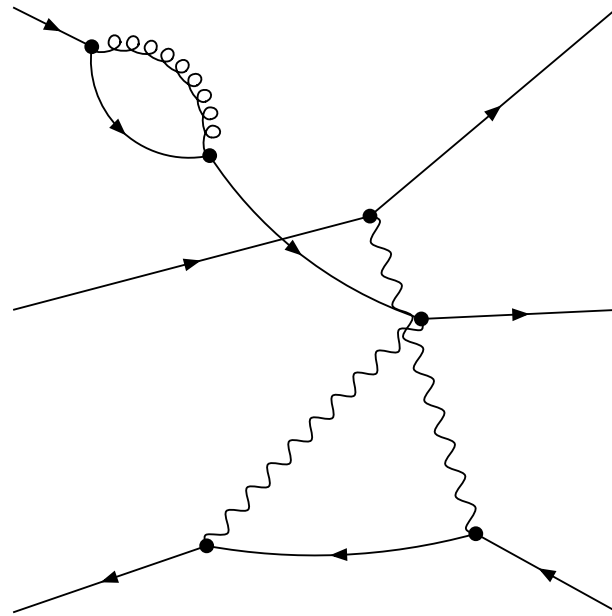
final

Denominator:

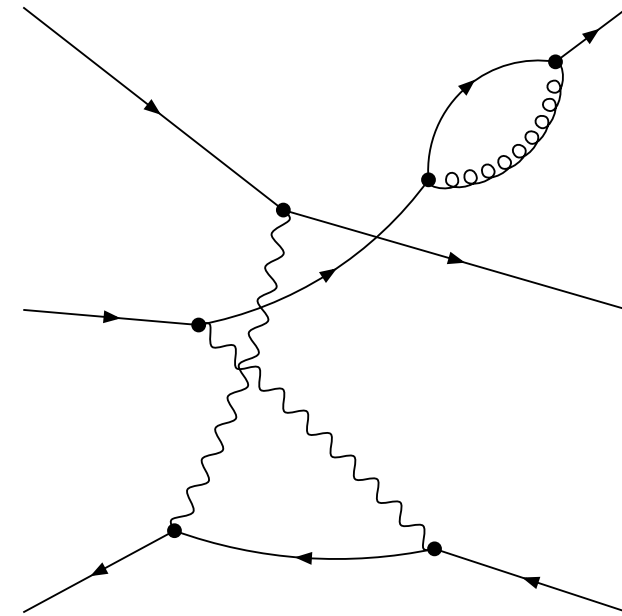
$$\text{prop}[0,k[3]]^{-1} \text{prop}[0,1/2 \ p+1/2 \ q]^{-2} \text{prop}[0,1/2 \ p-1/2 \ q]^{-1} \text{prop}[0,1/2 \ p+1/2 \ q+k[3]]^{-1}$$



$$-1+9-14+17$$



$$-1+9+11$$



$$-1+9+13$$

embedding 20 [1, 0, -2, 1]

initial

Denominator:

0

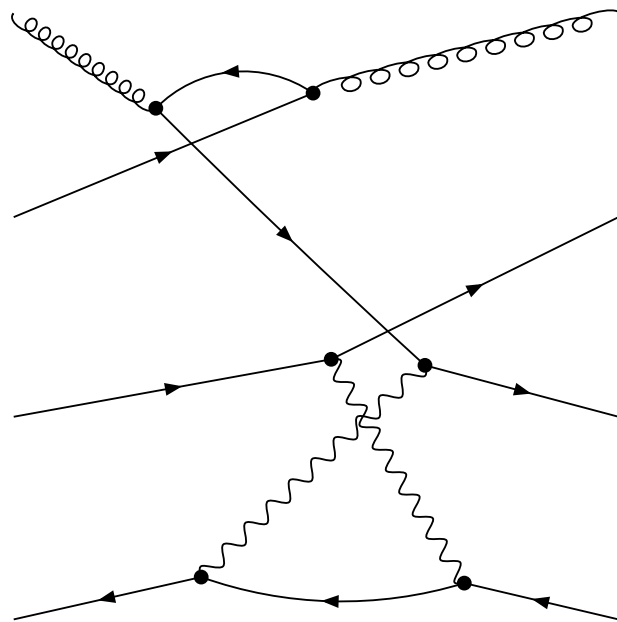
Partial Fractioned Denominator:

0

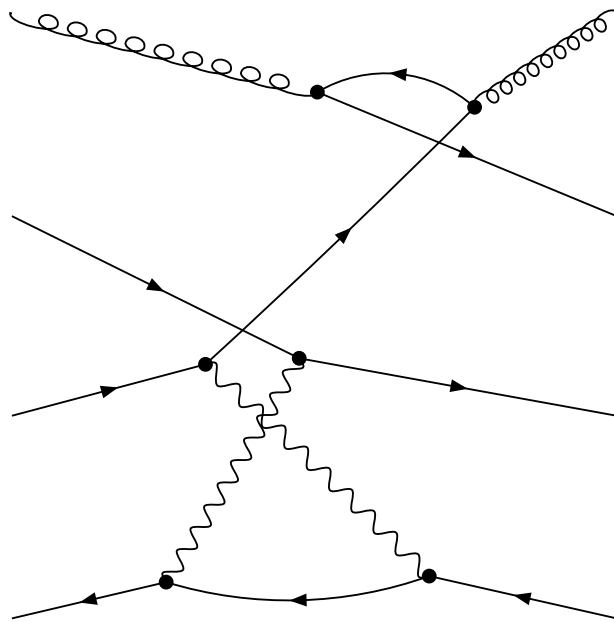
final

Denominator:

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



$-1+9+11-14$



$-1+9+13-14$

embedding 21 [1, 0, -1, -2]

initial

Denominator:

0

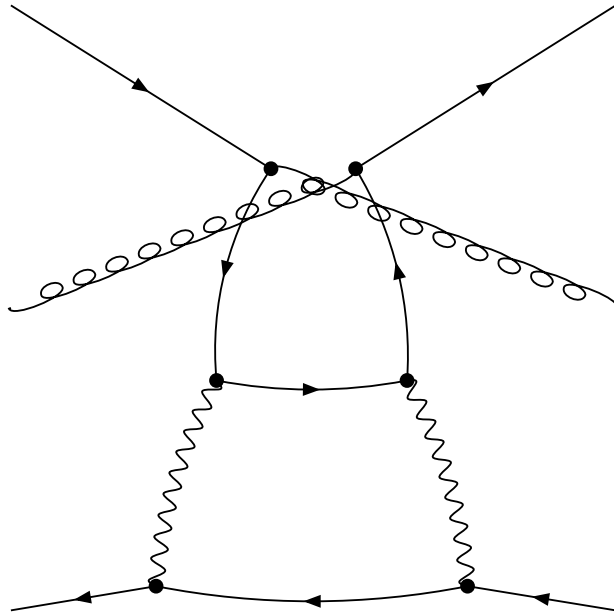
Partial Fractioned Denominator:

0

final

Denominator:

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



$$-1+14+17$$

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

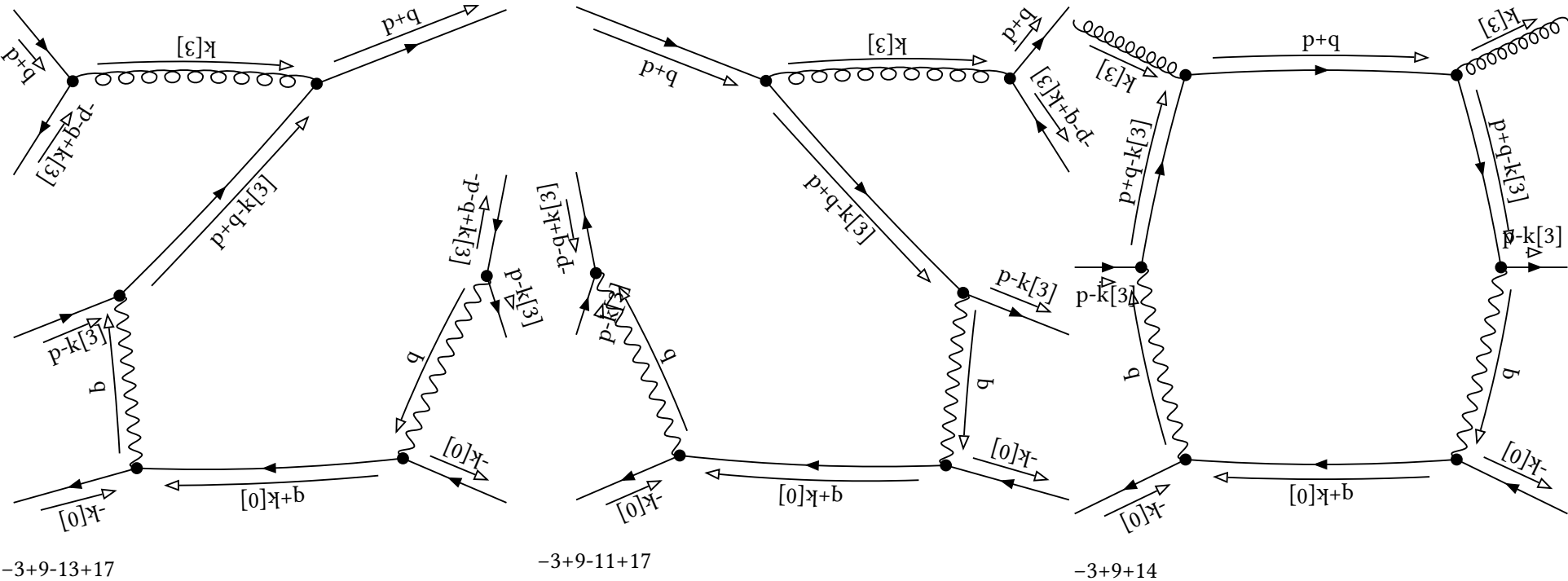
initial

Denominator:

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

Partial Fractioned Denominator:

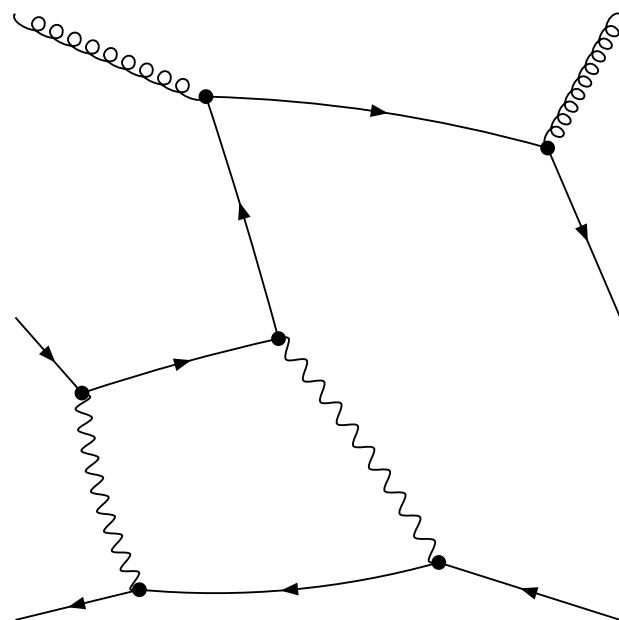
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,p-k[3]]^{-1} \text{prop}[0,p+q-k[3]]^{-2}$



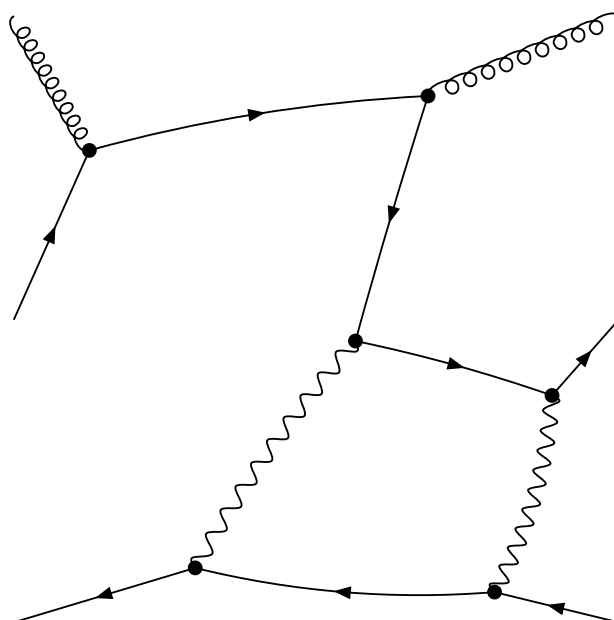
final

Denominator:

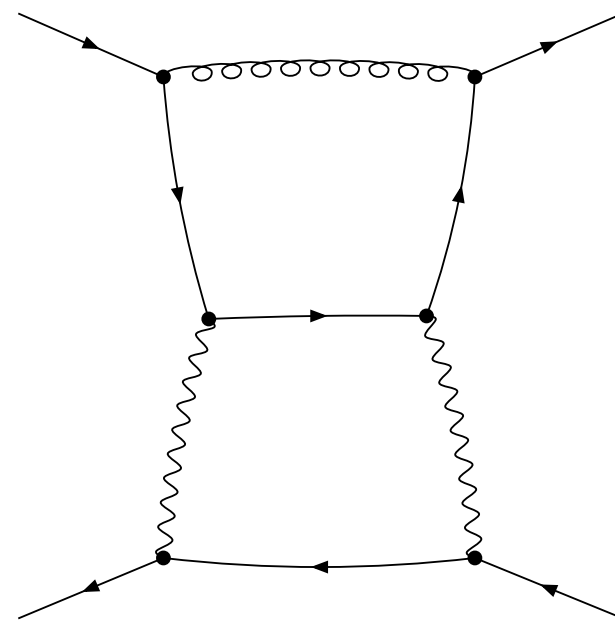
$\text{prop}[0,p]^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,p-k[3]]^{-2} \text{prop}[0,p-q-k[3]]^{-1}$



-1+13+14



-1+11+14



-1+17

embedding 23 [1, 0, -1, 0]

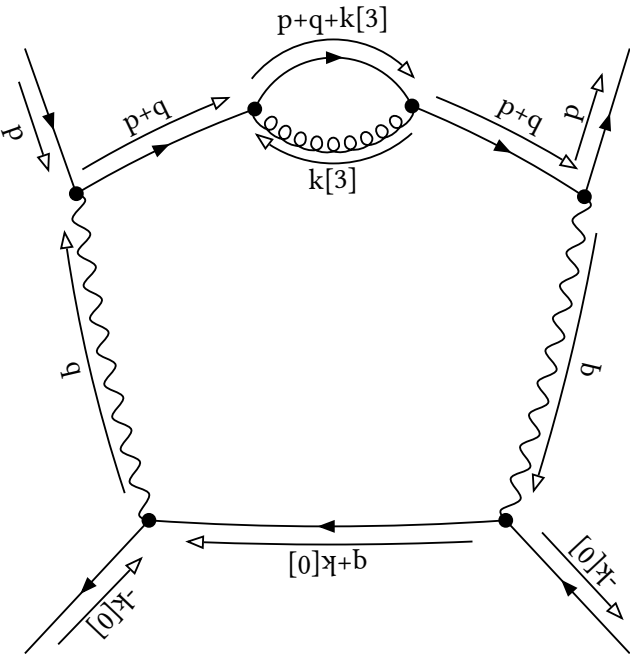
initial

Denominator:

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

Partial Fractioned Denominator:

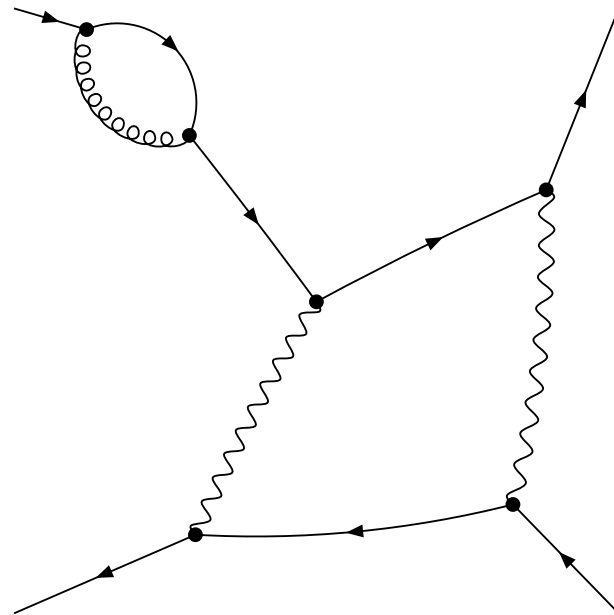
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-2} \text{prop}[0,k[3]]^{-1} \text{prop}[0,p+q+k[3]]^{-1} \text{dot}[p,p]^{-1}$



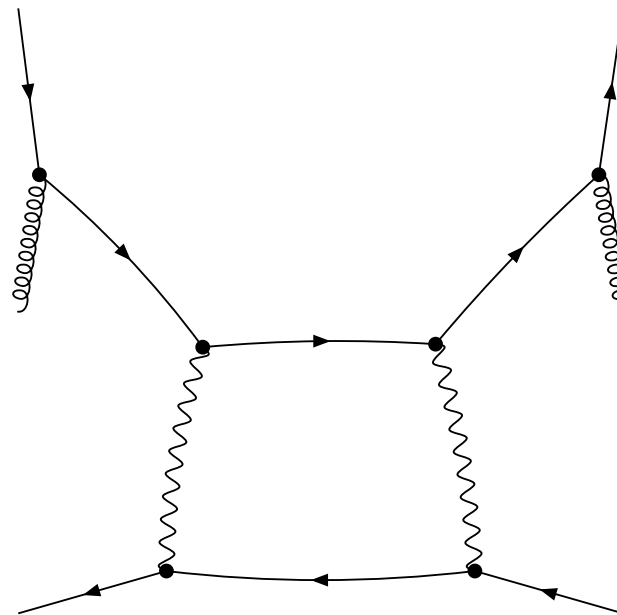
final

Denominator:

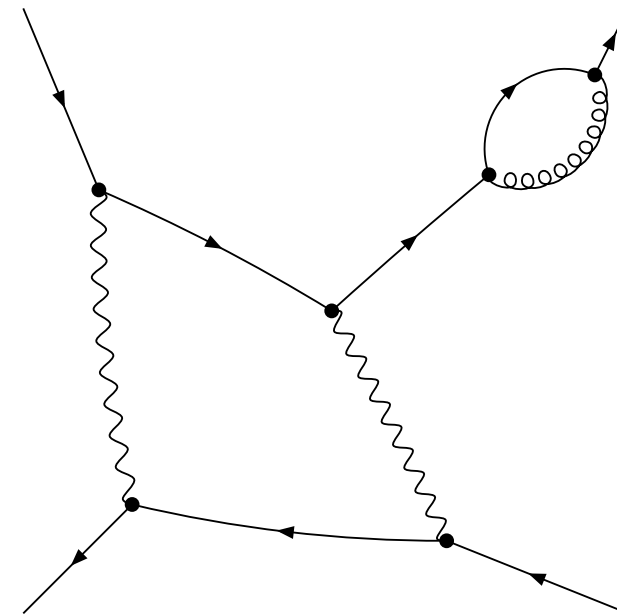
$\text{prop}[0,p]^{-2} \text{prop}[0,k[3]]^{-1} \text{prop}[0,p+k[3]]^{-1} \text{prop}[0,p-q]^{-1}$



-1+11



-1-14+17



-1+13

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

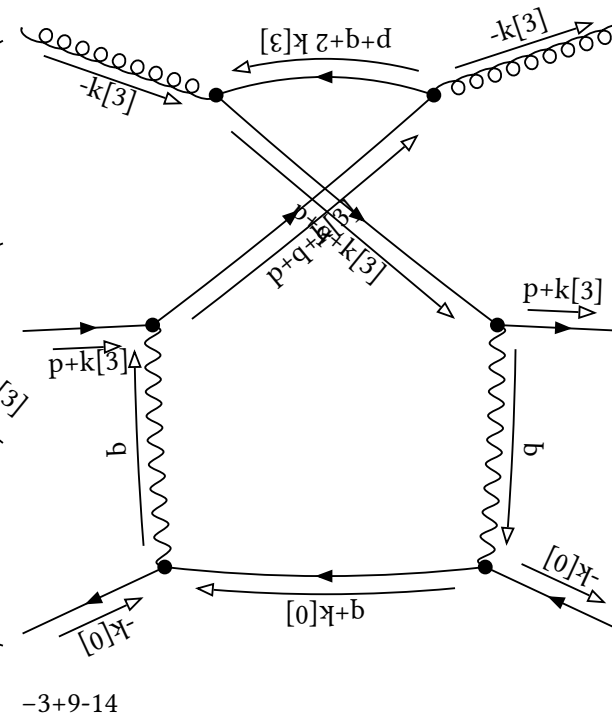
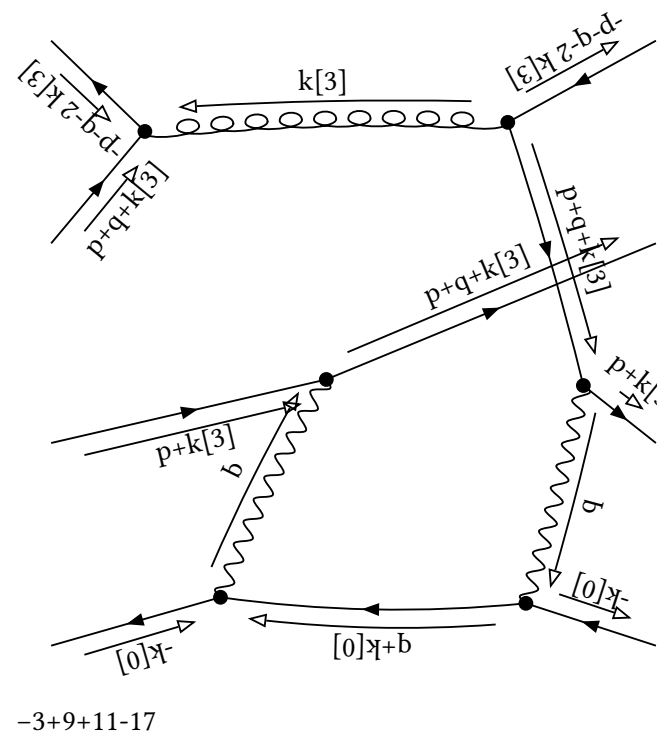
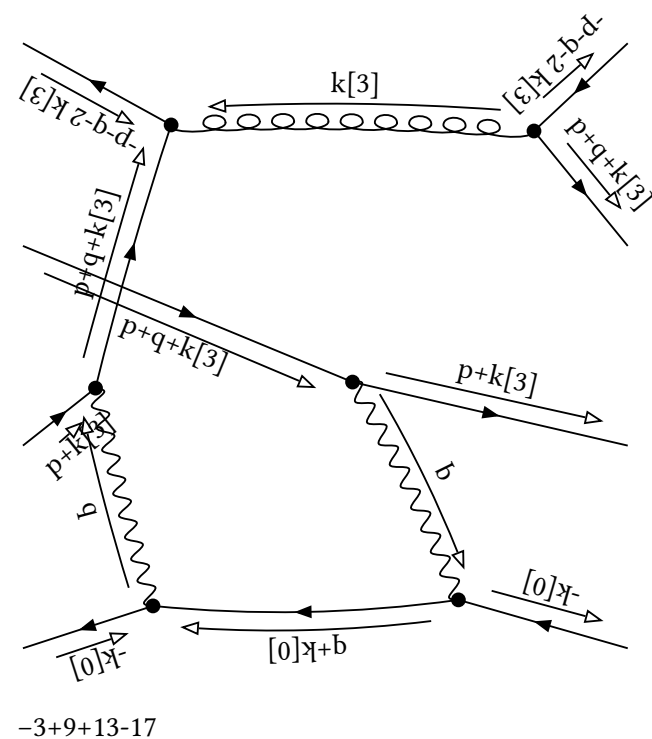
initial

Denominator:

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

Partial Fractioned Denominator:

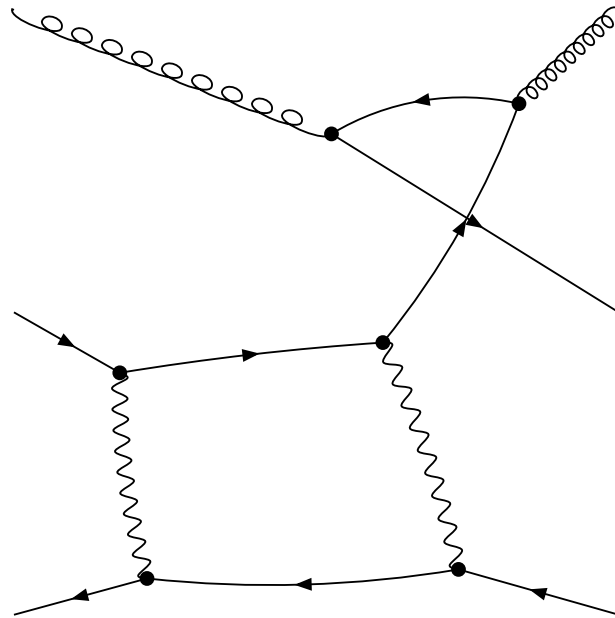
$$\begin{aligned} & -2 \, (-\text{dot}[p,p]-2 \, \text{dot}[p,q]-\text{dot}[q,q])^{\wedge}2 \, \text{prop}[0,k[3]]^{\wedge}1 \, \text{prop}[0,p+k[3]]^{\wedge}1 \, \text{prop}[0,p+q+k[3]]^{\wedge}1 \\ & +4 \, (-\text{dot}[p,p]-2 \, \text{dot}[p,q]-\text{dot}[q,q])^{\wedge}2 \, \text{prop}[0,k[3]]^{\wedge}1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



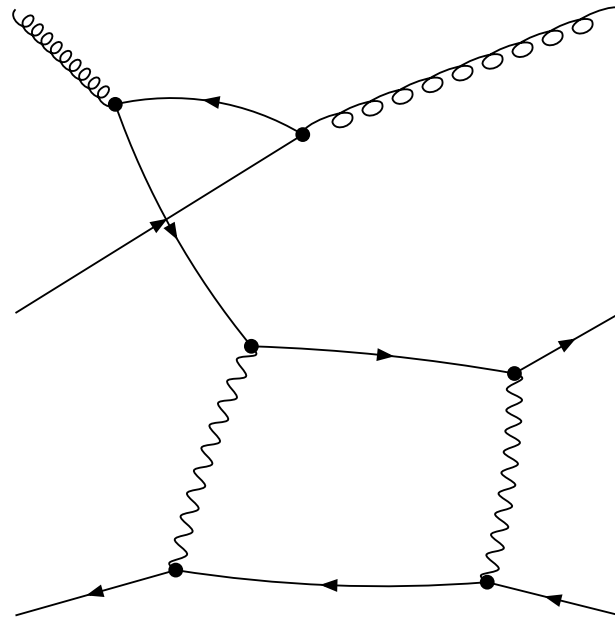
final

Denominator:

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



-1+13-14



-1+11-14

embedding 25 [1, 0, 0, -2]

initial

Denominator:

0

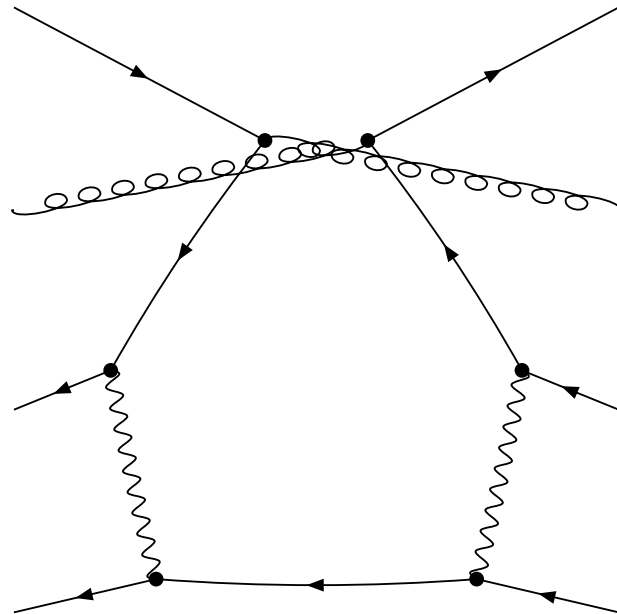
Partial Fractioned Denominator:

0

final

Denominator:

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



$$-1-9+14+17$$

embedding 26 [1, 0, 0, -1]

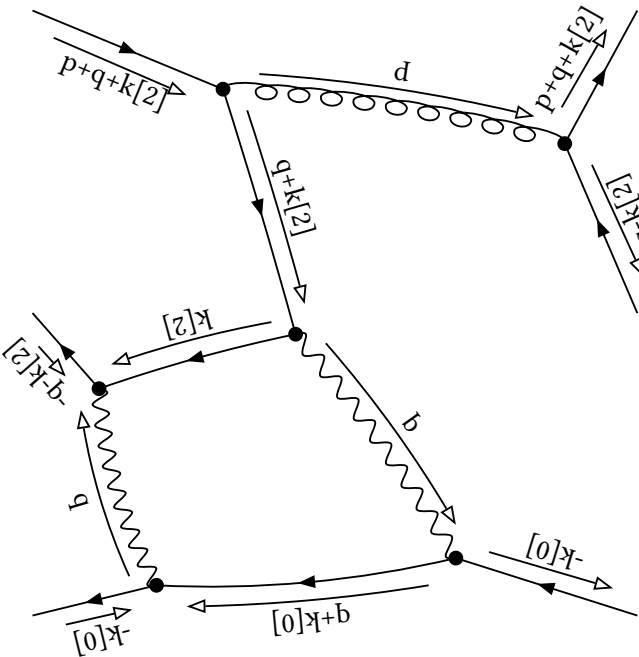
initial

Denominator:

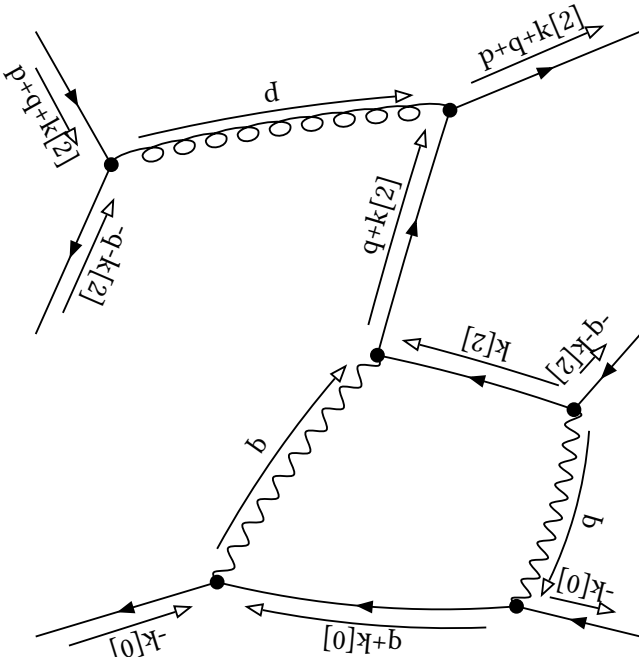
$\text{prop}[0,p]^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,p+q+k[2]]^{-1}$

Partial Fractioned Denominator:

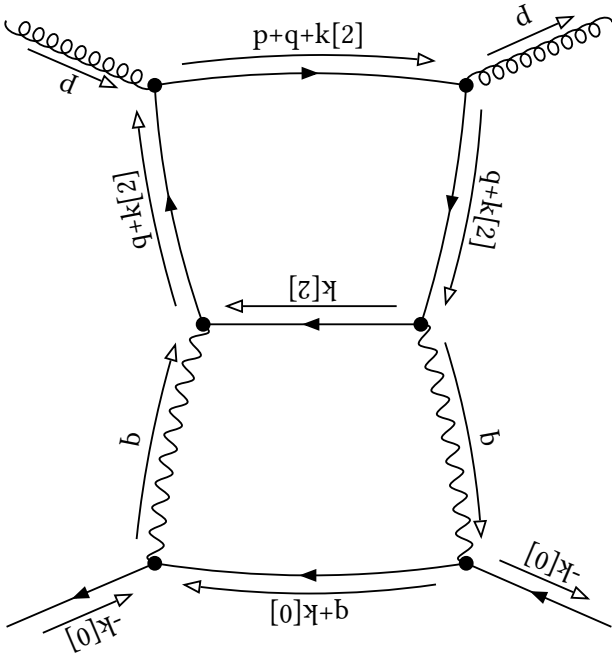
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,p+q+k[2]]^{-1} \text{dot}[p,p]^{-1}$



-3-11+17



-3-13+17

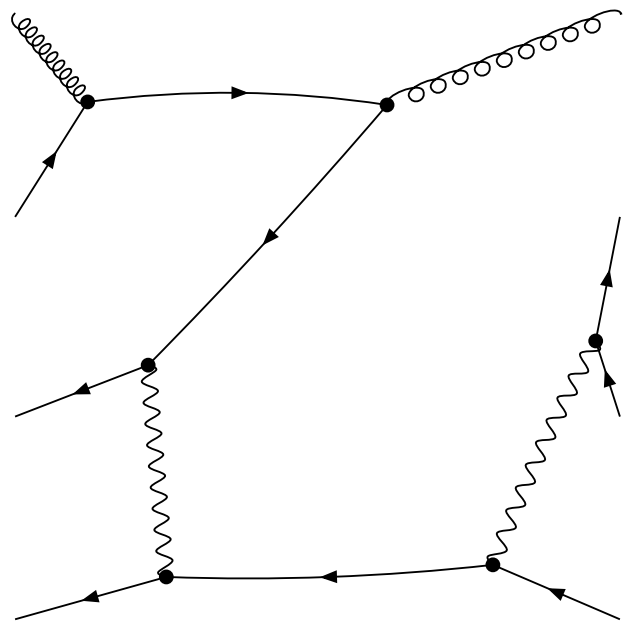


-3+14

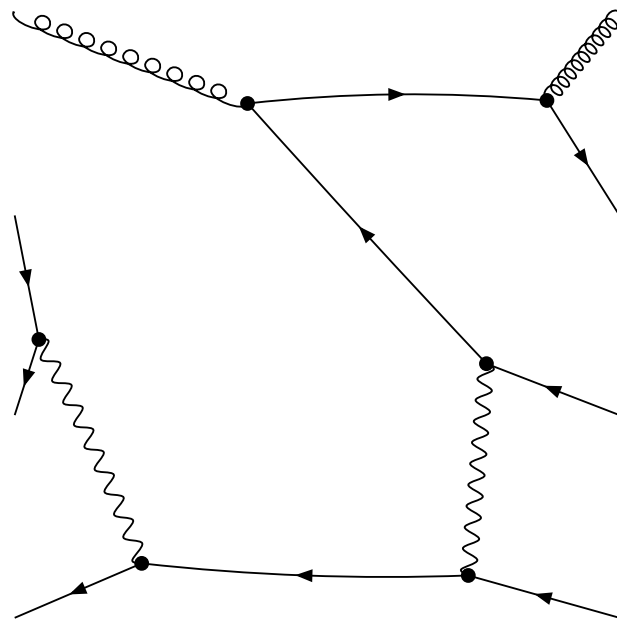
final

Denominator:

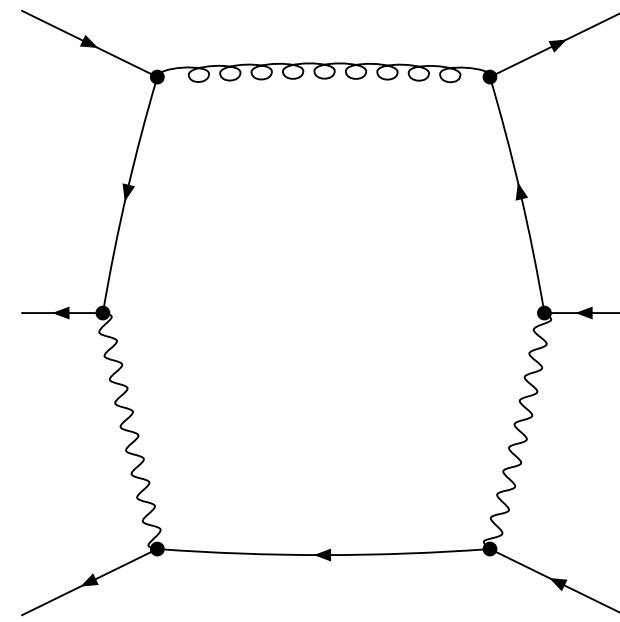
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,p+k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,p-q]^{-1}$



$-1-9+11+14$



$-1-9+13+14$



$-1-9+17$

embedding 27 [1, 0, 0, 0]

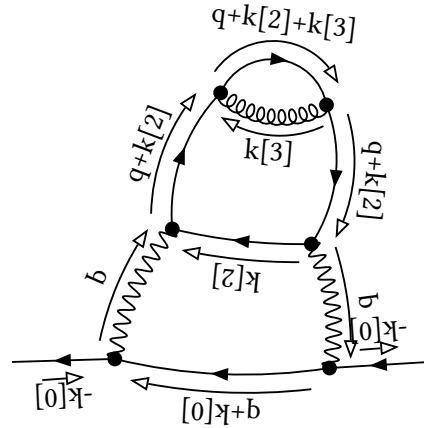
initial

Denominator:

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

Partial Fractioned Denominator:

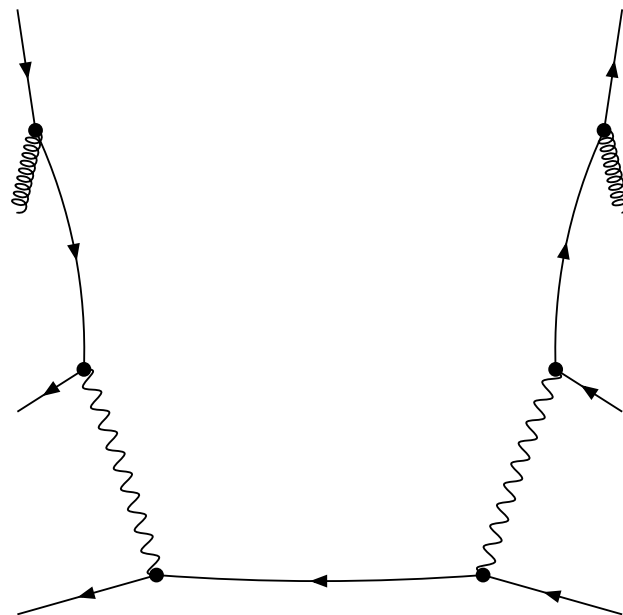
$$\text{prop}[\theta, k[2]]^{-1} \text{prop}[\theta, k[3]]^{-1} \text{prop}[\theta, q+k[2]]^{-2} \text{prop}[\theta, q+k[2]+k[3]]^{-1}$$



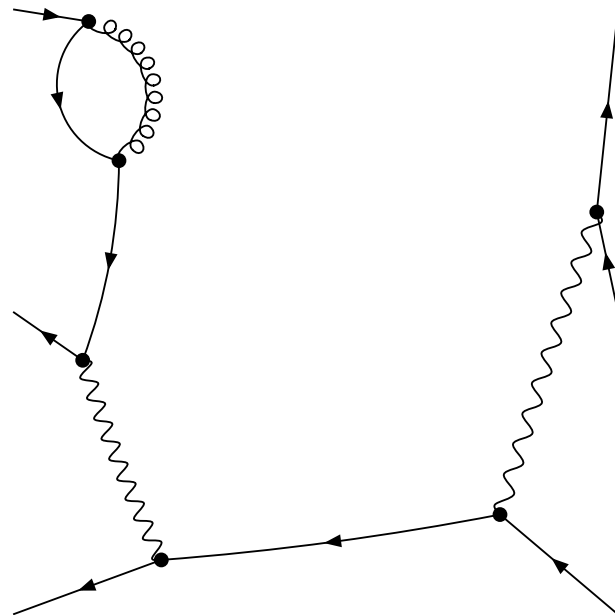
final

Denominator:

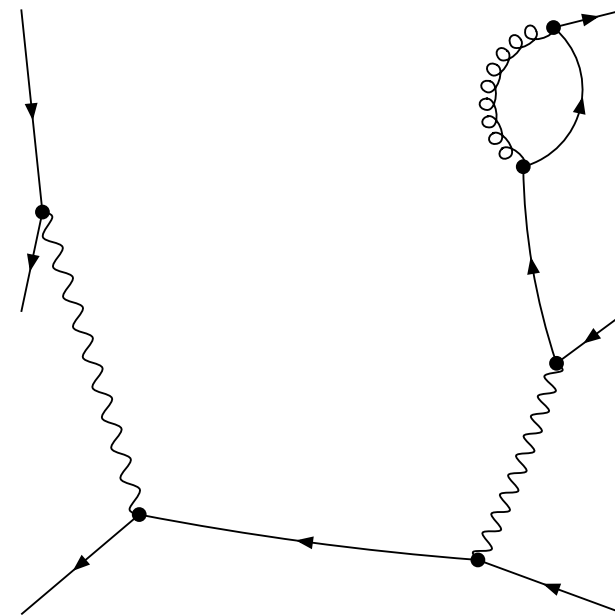
$$\text{prop}[0,k[2]]^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,q+k[2]+k[3]]^{-1}$$



$$-1-9-14+17$$



$$-1-9+11$$



$$-1-9+13$$

embedding 28 [1, 0, 0, 1]

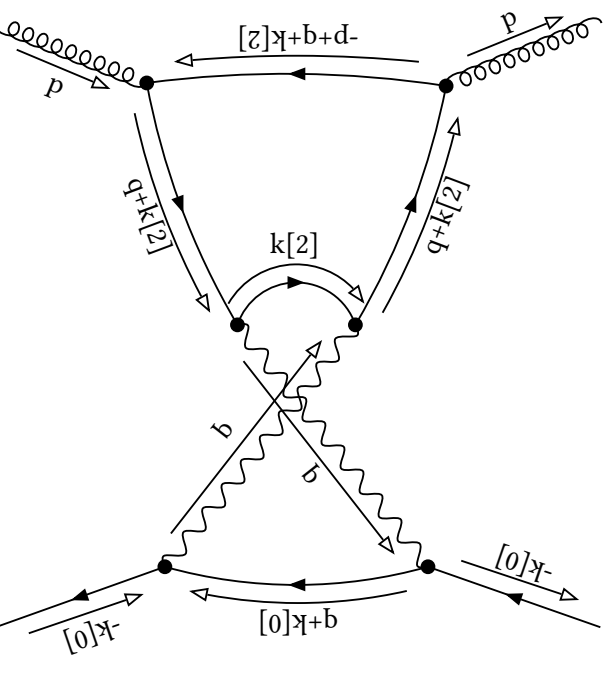
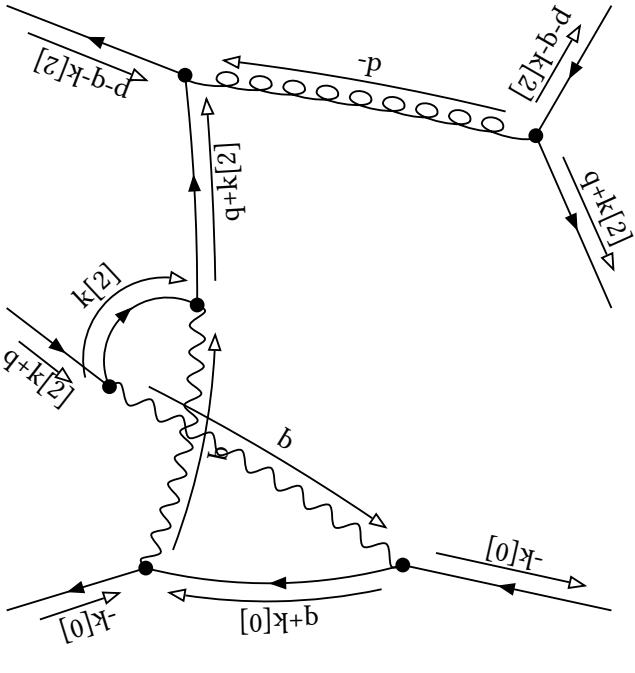
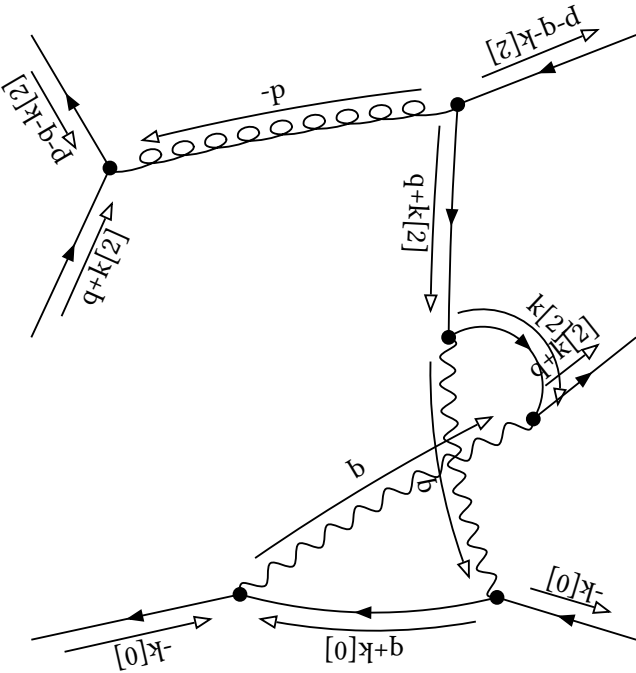
initial

Denominator:

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

Partial Fractioned Denominator:

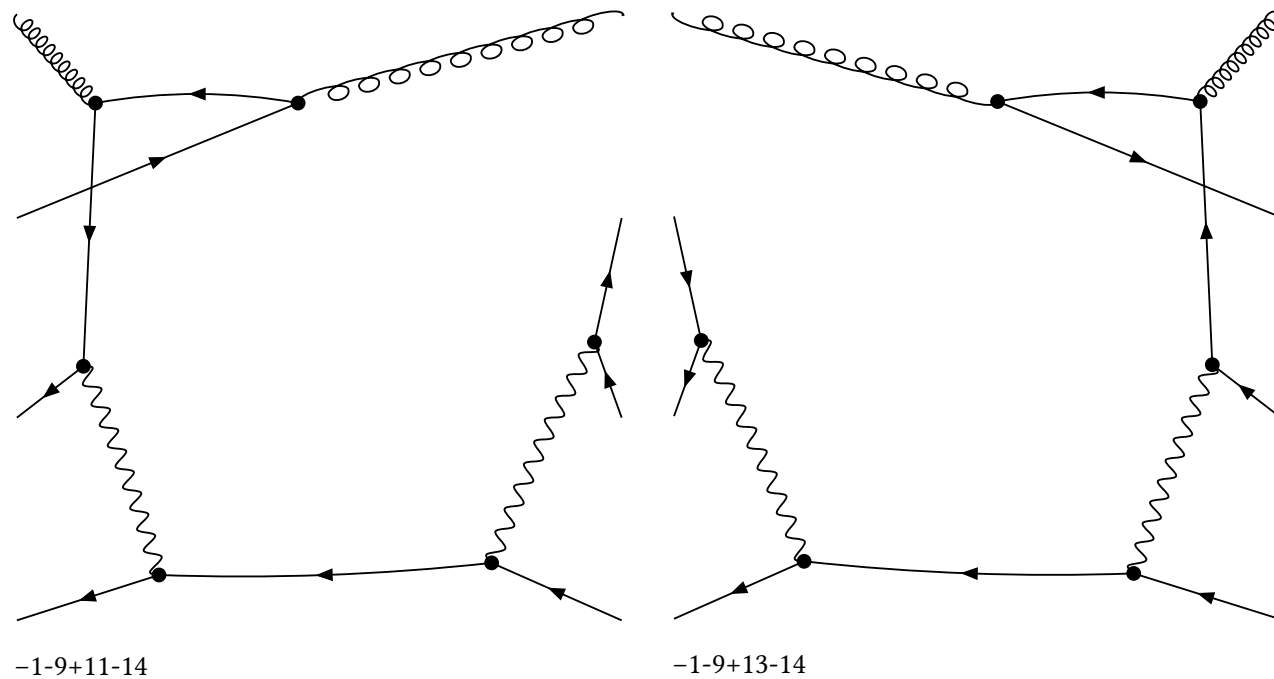
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,-p+q+k[2]]^{-1} \text{dot}[p,p]^{-1}$



final

Denominator:

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



embedding 29 [1, 0, 1, -1]

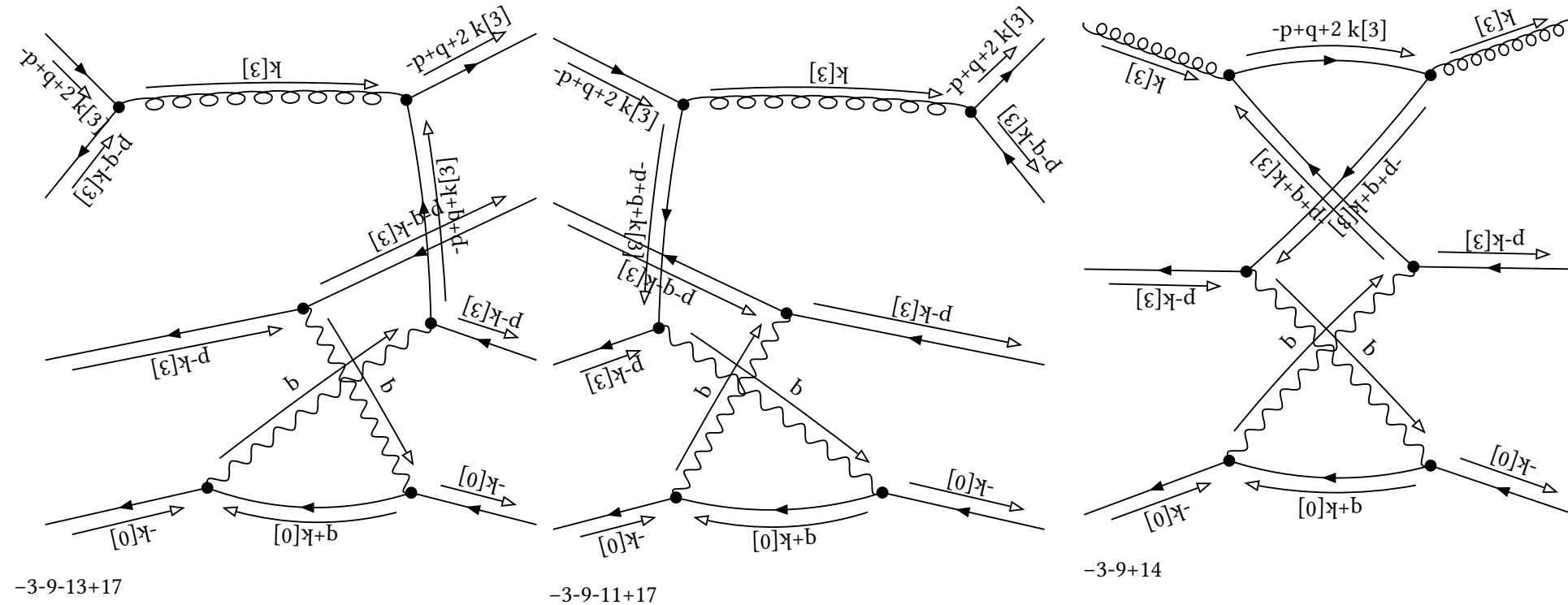
initial

Denominator:

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

Partial Fractioned Denominator:

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



final

Denominator:

0

embedding 30 [1, 0, 1, 0]

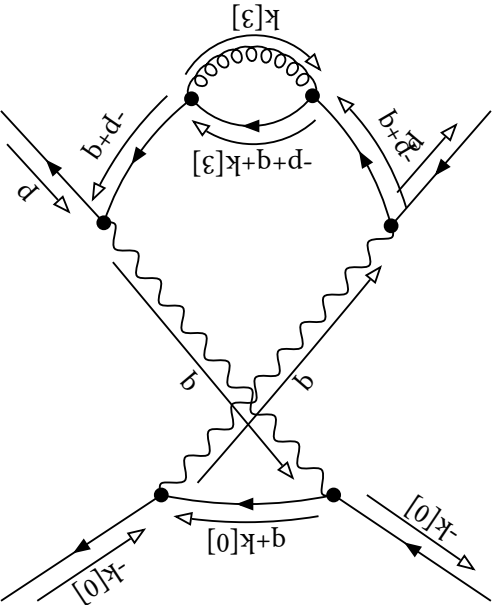
initial

Denominator:

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

Partial Fractioned Denominator:

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



final

Denominator:

0

embedding 31 [1, 0, 1, 1]

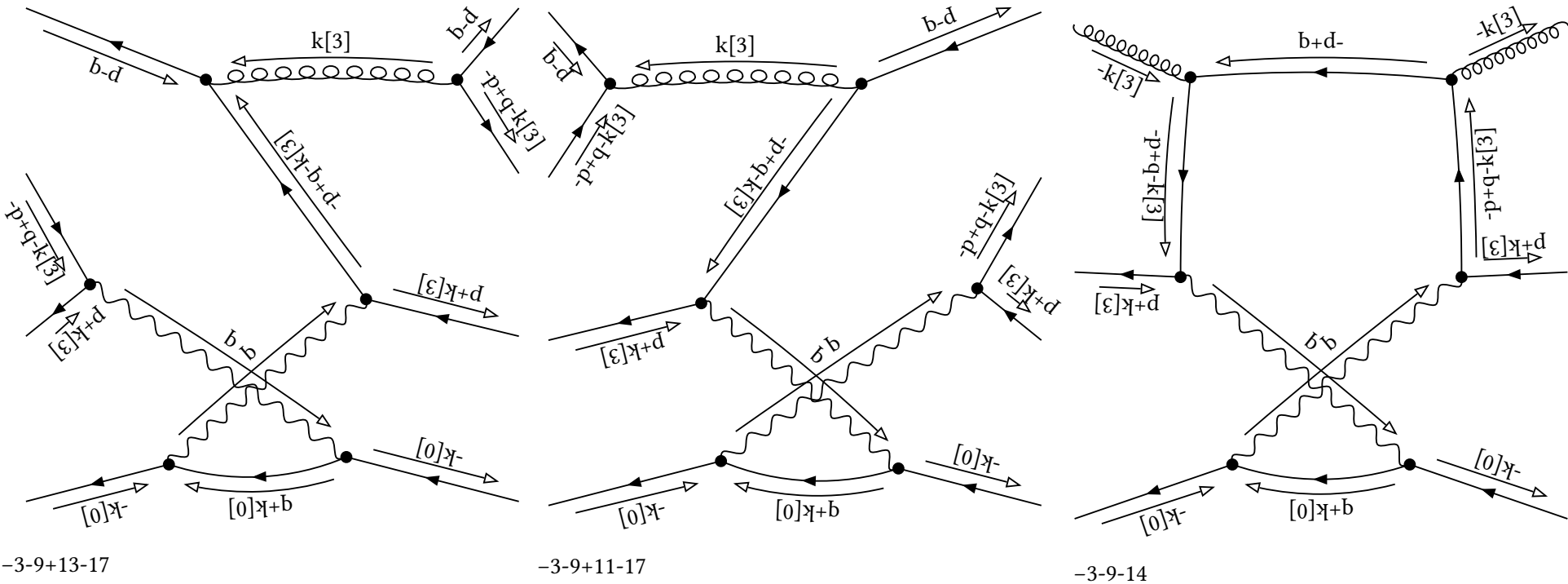
initial

Denominator:

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

Partial Fractioned Denominator:

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



final

Denominator:

0

embedding 32 [1, 1, -1, -1]

initial

Denominator:

0

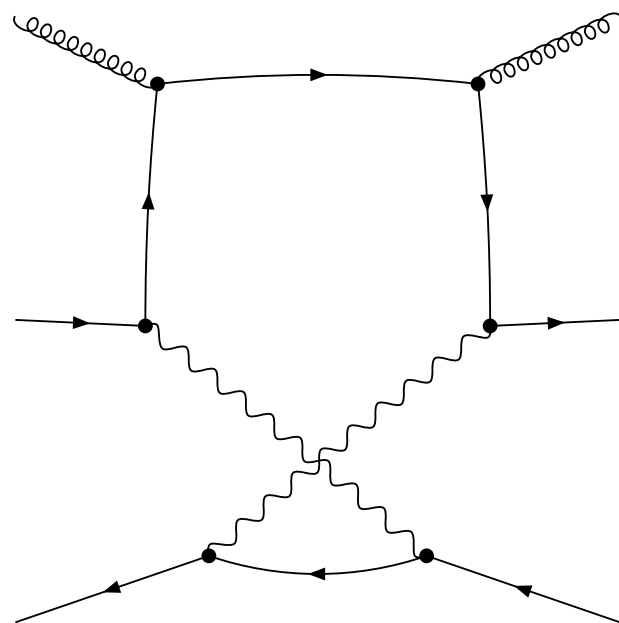
Partial Fractioned Denominator:

0

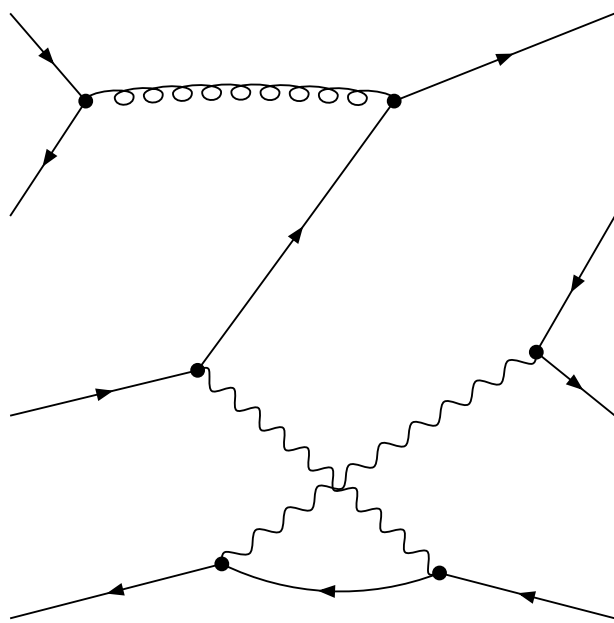
final

Denominator:

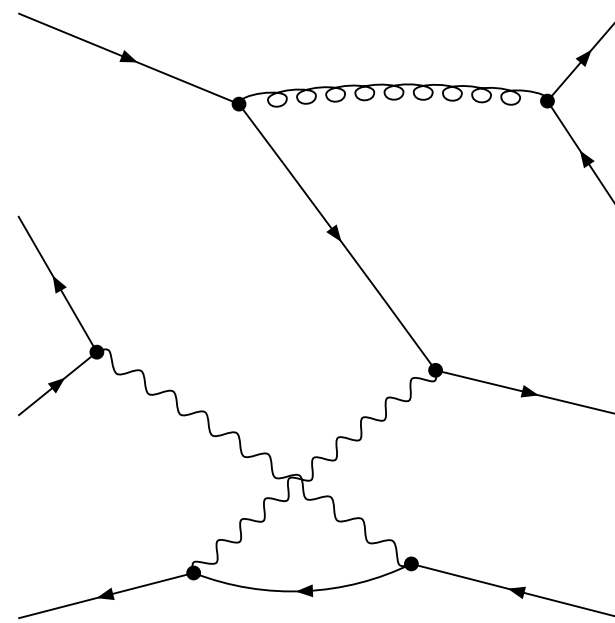
$\text{prop}[0,k[3]]^{-1} \text{prop}[0,p+q]^{-1} \text{prop}[0,p-k[3]]^{-1} \text{prop}[0,p+q-k[3]]^{-2}$



-1+9+14



-1+9-13+17



-1+9-11+17

embedding 33 [1, 1, -1, 0]

initial

Denominator:

0

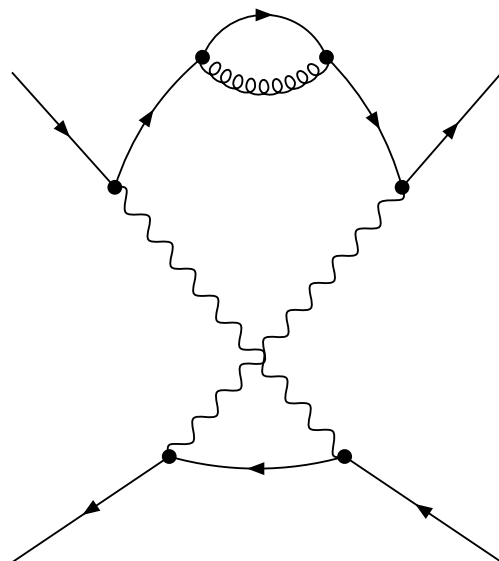
Partial Fractioned Denominator:

0

final

Denominator:

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



-1+9

embedding 34 [1, 1, -1, 1]

initial

Denominator:

0

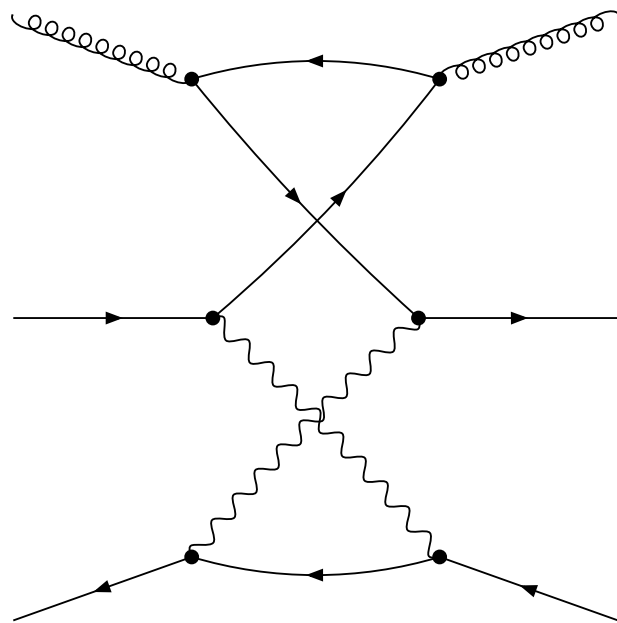
Partial Fractioned Denominator:

0

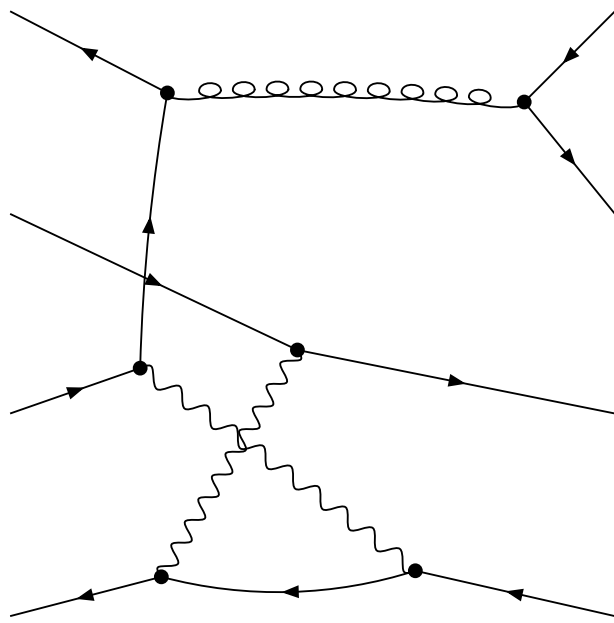
final

Denominator:

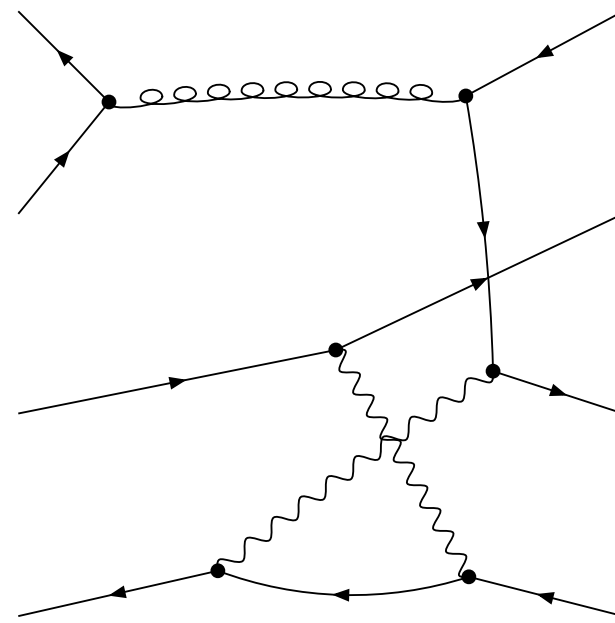
$$\text{prop}[0,k[3]]^{-1} \text{prop}[0,p+k[3]]^{-1} \text{prop}[0,p+q+k[3]]^{-2} \text{prop}[0,p+q+2 k[3]]^{-1}$$



-1+9-14



-1+9+13-17



-1+9+11-17

embedding 35 [1, 1, 0, -1]

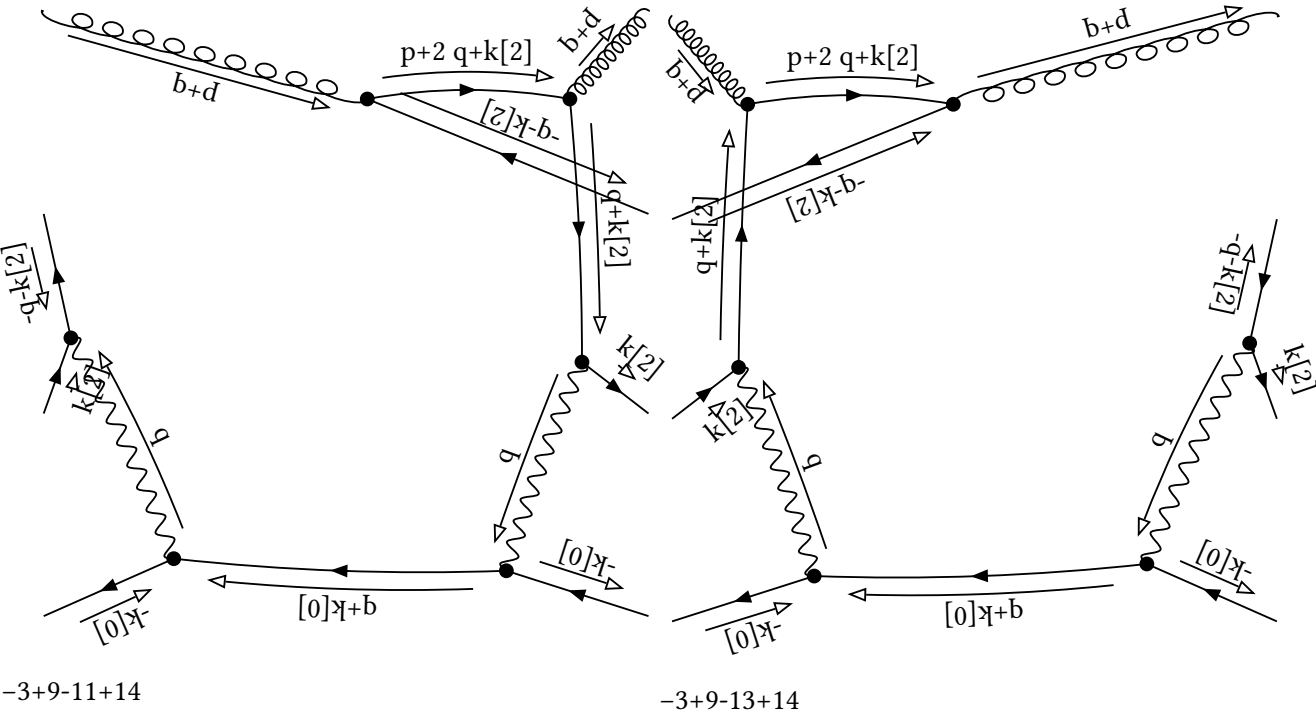
initial

Denominator:

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

Partial Fractioned Denominator:

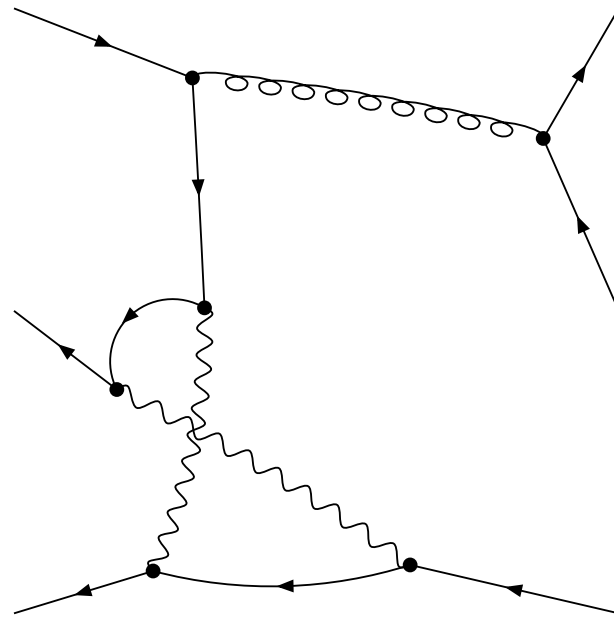
$(\text{dot}[p,p]+2 \ \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,p+2 \ q+k[2]]^{-1}$



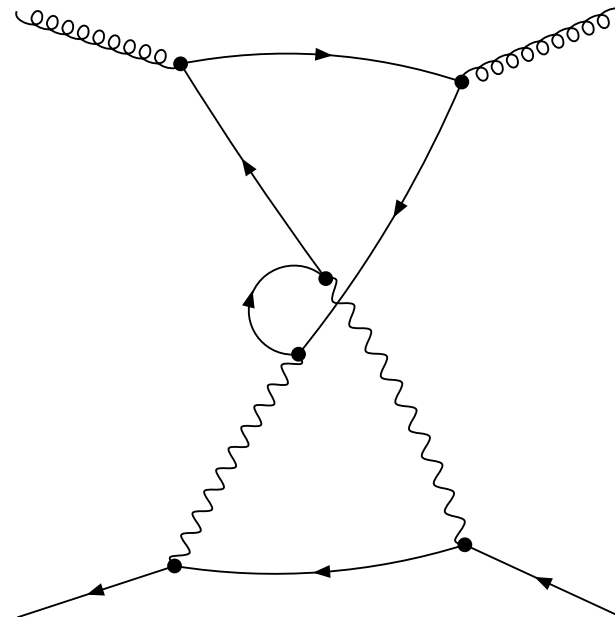
final

Denominator:

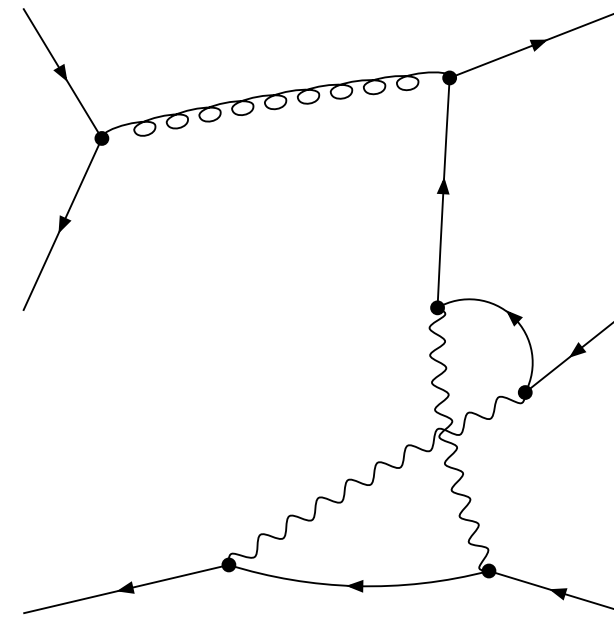
$\text{prop}[0,p]^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,p+q+k[2]]^{-1}$



-1-11+17



-1+14



-1-13+17

embedding 36 [1, 1, 0, 0]

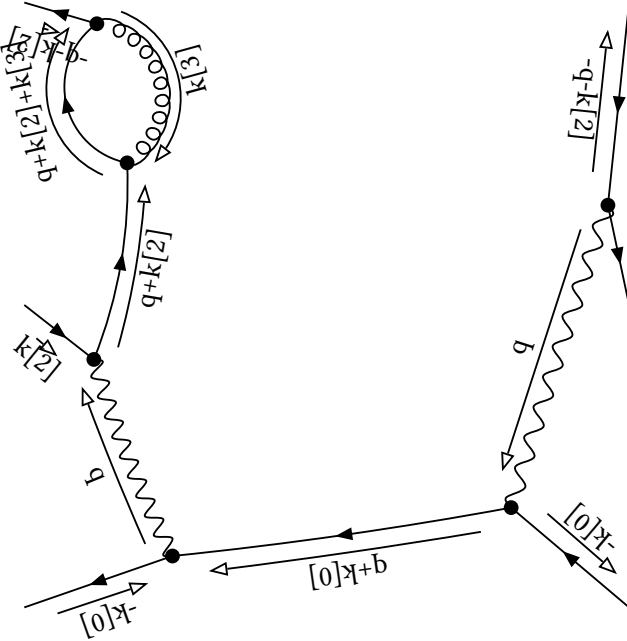
initial

Denominator:

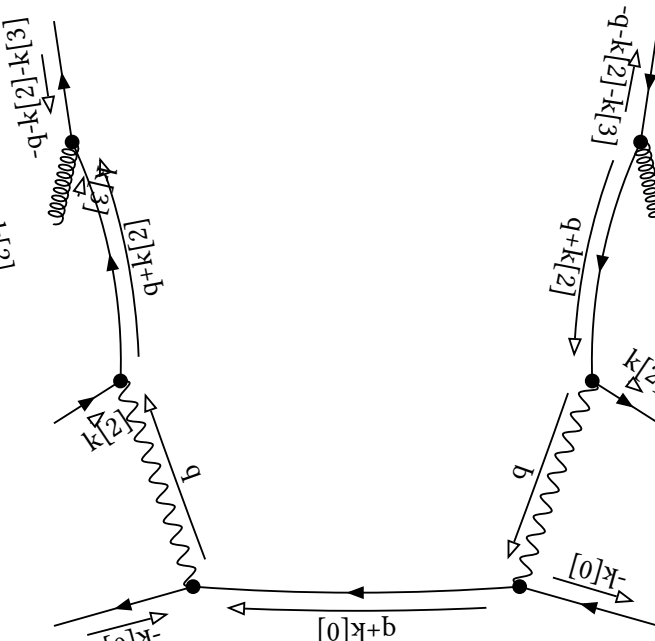
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,q+k[2]+k[3]]^{-1}$

Partial Fractioned Denominator:

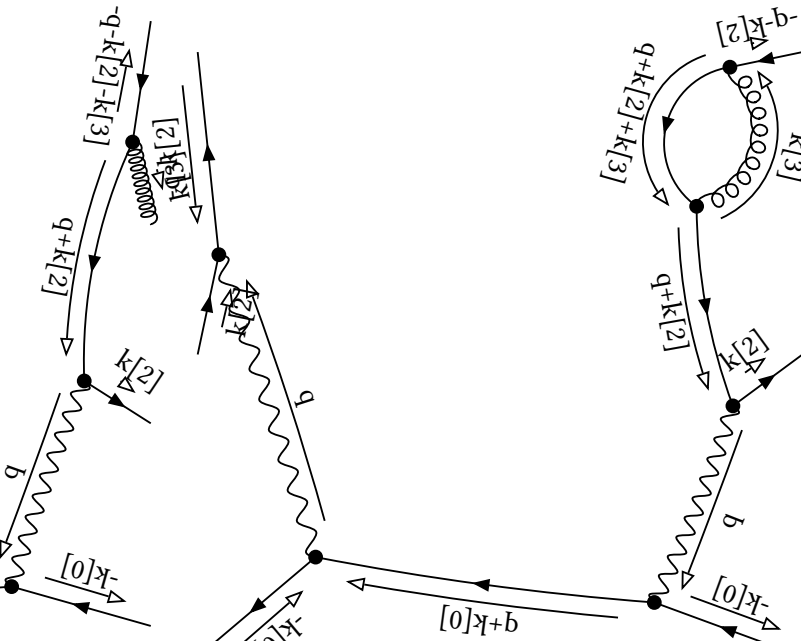
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,q+k[2]+k[3]]^{-1}$



-3+9-13



-3+9+14-17

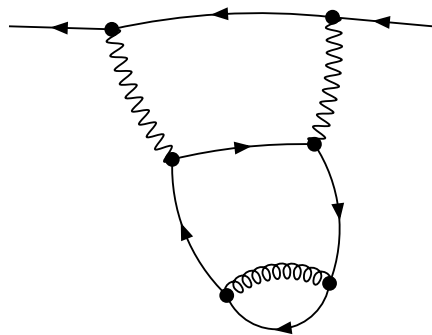


-3+9-11

final

Denominator:

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



-1

embedding 37 [1, 1, 0, 1]

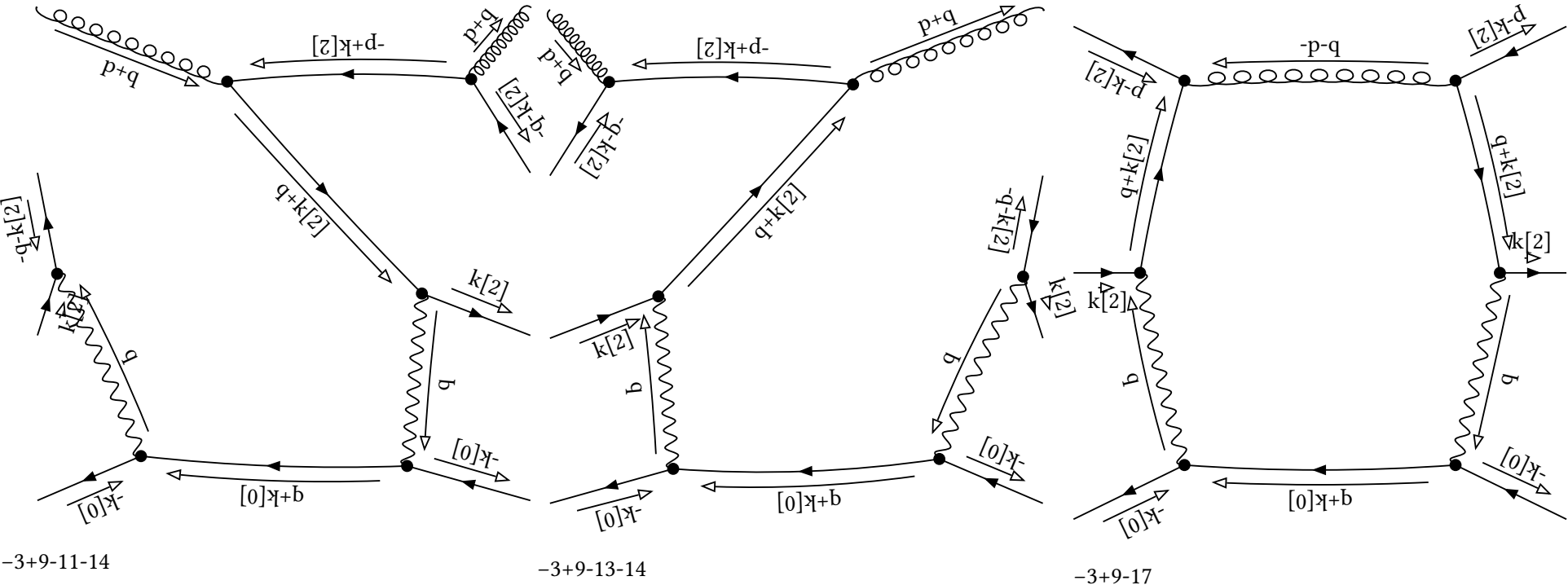
initial

Denominator:

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

Partial Fractioned Denominator:

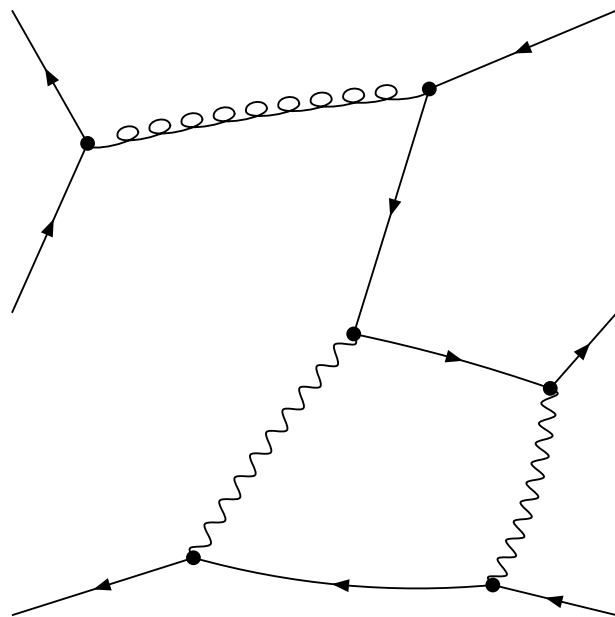
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,-p+k[2]]^{-1}$



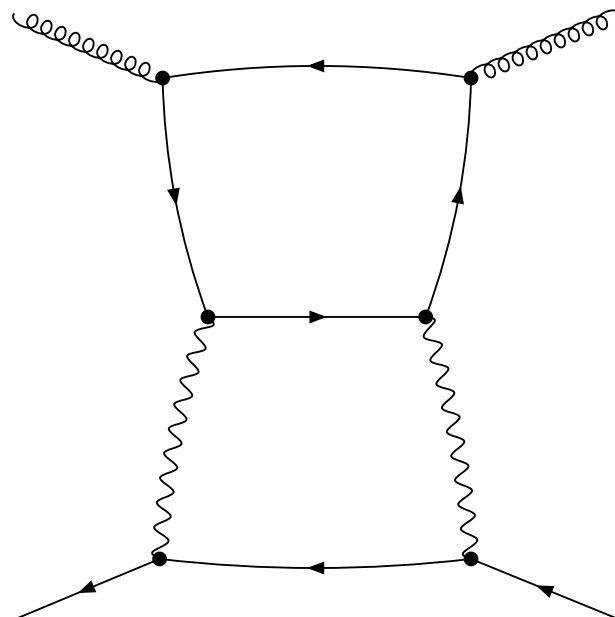
final

Denominator:

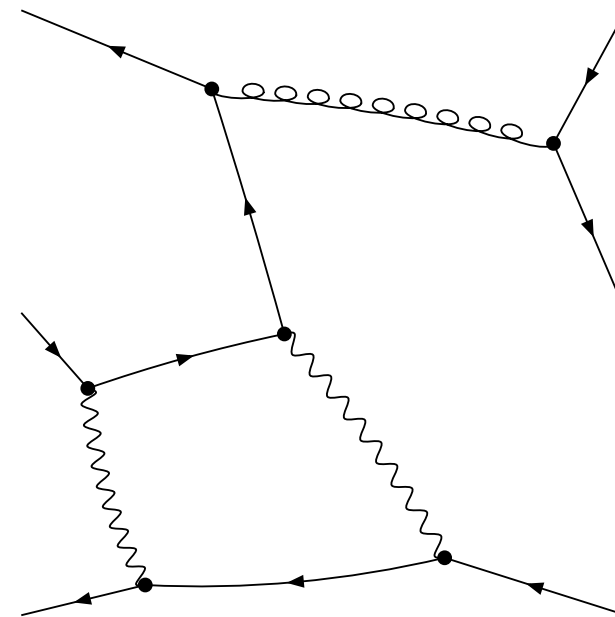
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,-p]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,-p+q+k[2]]^{-1}$



$-1+11-17$



$-1-14$



$-1+13-17$

embedding 38 [1, 1, 0, 2]

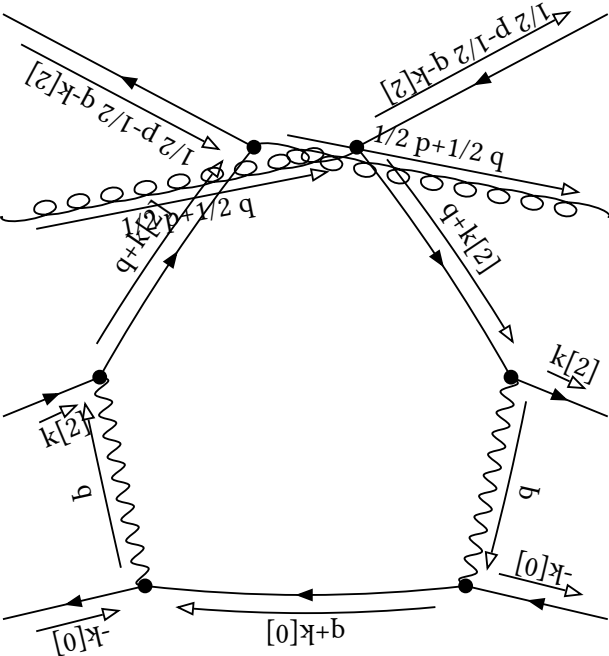
initial

Denominator:

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

Partial Fractioned Denominator:

$(1/4 \ \text{dot}[p,p]+1/2 \ \text{dot}[p,q]+1/4 \ \text{dot}[q,q])^{-1} \text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,-1/2 \ p+1/2 \ q+k[2]]^{-1}$



final

Denominator:

0

embedding 39 [1, 1, 1, -1]

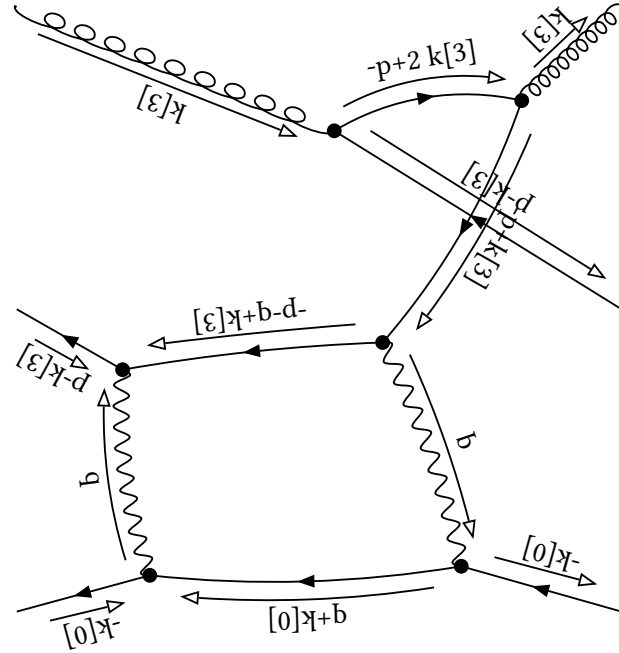
initial

Denominator:

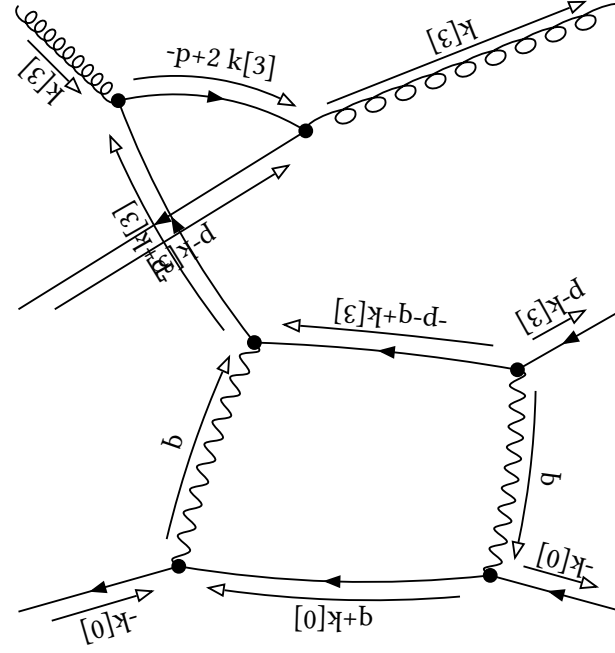
$$\text{prop}[0, k[3]]^{-1} \text{prop}[0, -p+k[3]]^{-2} \text{prop}[0, -p+2 k[3]]^{-1} \text{prop}[0, -p-q+k[3]]^{-1}$$

Partial Fractioned Denominator:

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



-3-11+14

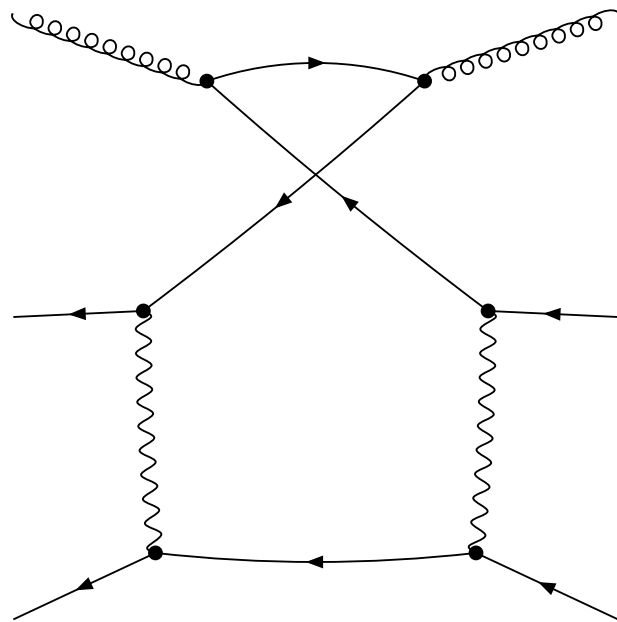


-3-13+14

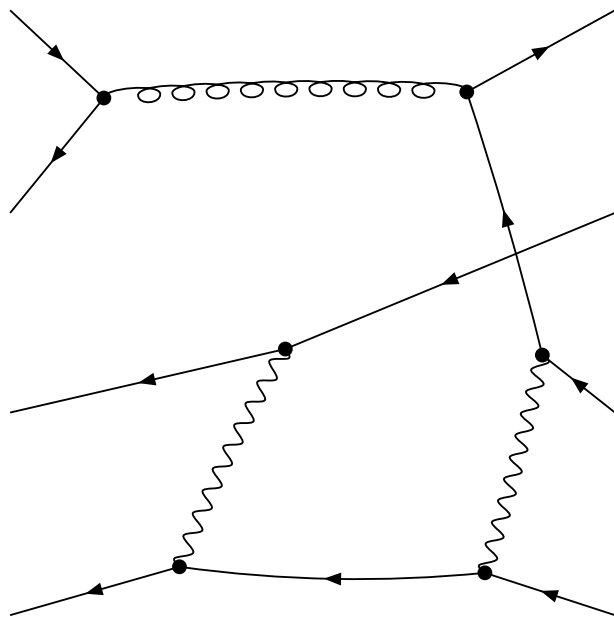
final

Denominator:

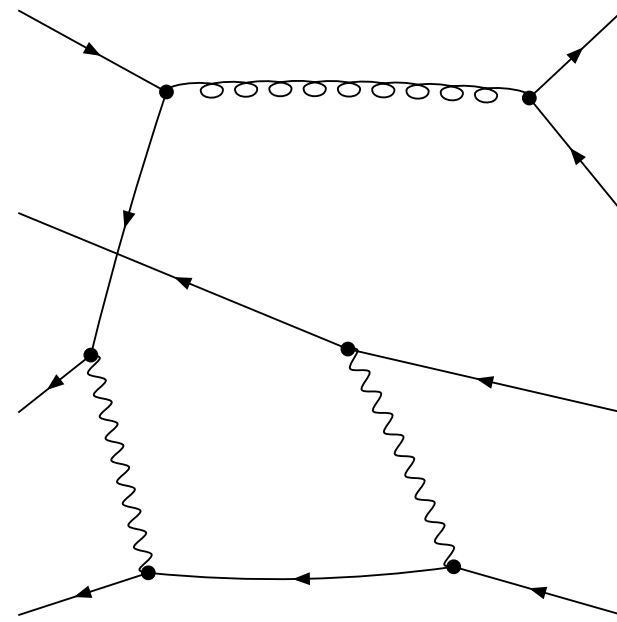
$\text{prop}[0, k[3]]^{-1} \text{prop}[0, -p+k[3]]^{-1} \text{prop}[0, -p+q+k[3]]^{-2} \text{prop}[0, -p+q+2 k[3]]^{-1}$



-1-9+14



-1-9-13+17



-1-9-11+17

embedding 40 [1, 1, 1, 0]

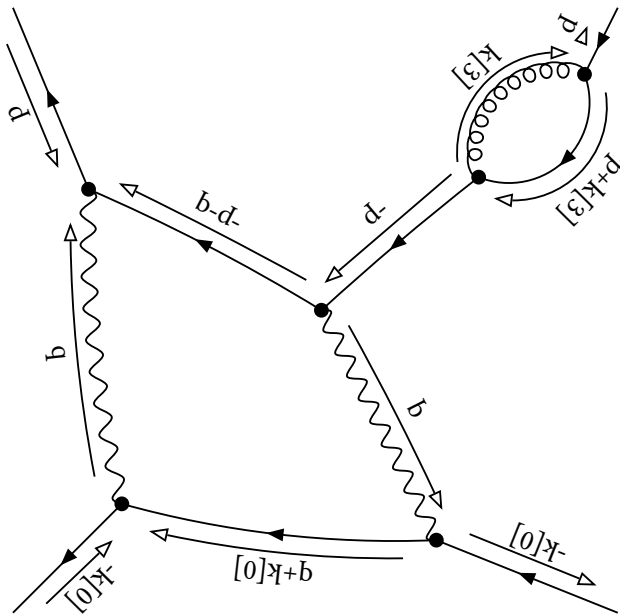
initial

Denominator:

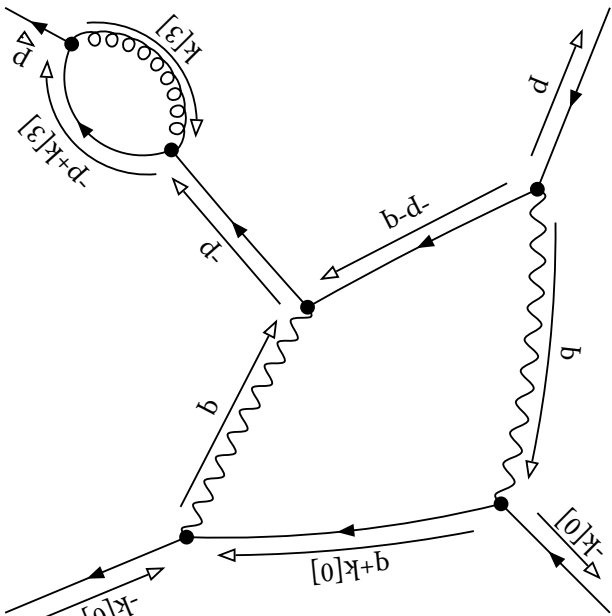
$\text{prop}[0,k[3]]^{-1} \text{prop}[0,-p]^{-2} \text{prop}[0,-p+k[3]]^{-1} \text{prop}[0,-p-q]^{-1}$

Partial Fractioned Denominator:

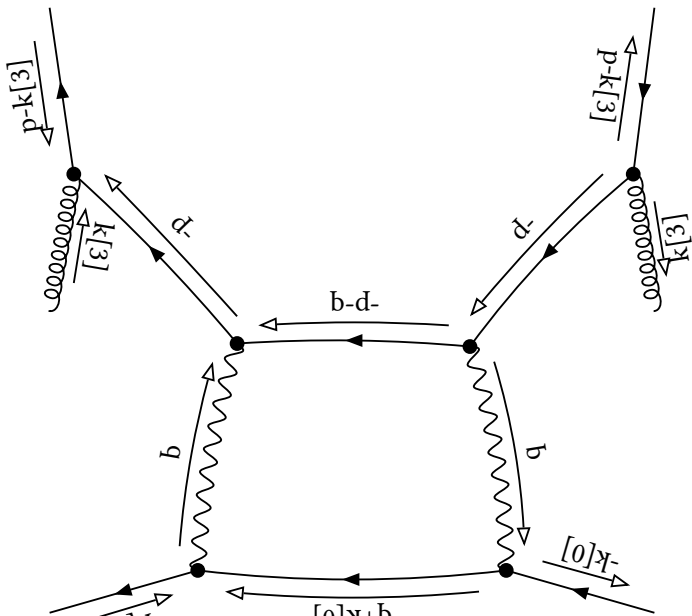
$(\text{dot}[p,p]+2 \text{dot}[p,q]+\text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,-p+k[3]]^{-1} \text{dot}[p,p]^{-2}$



-3-11



-3-13

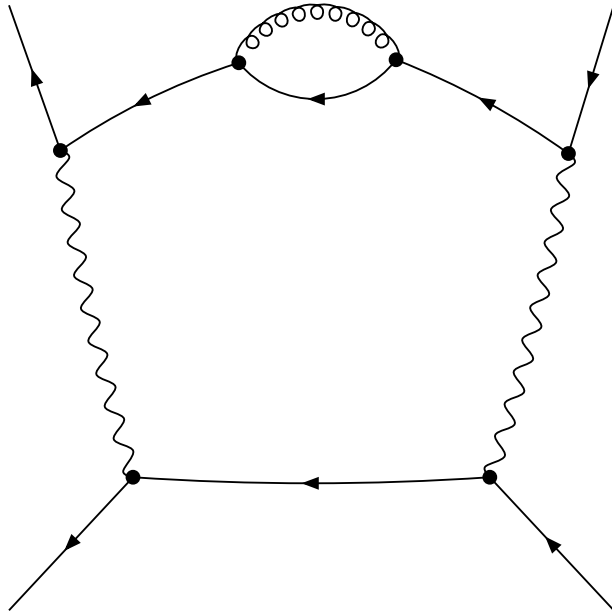


-3+14-17

final

Denominator:

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



-1-9

embedding 41 [1, 1, 1, 1]

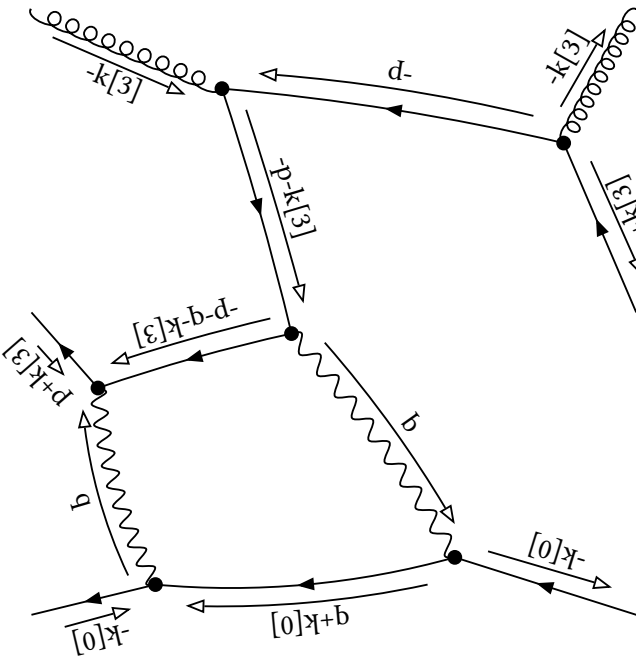
initial

Denominator:

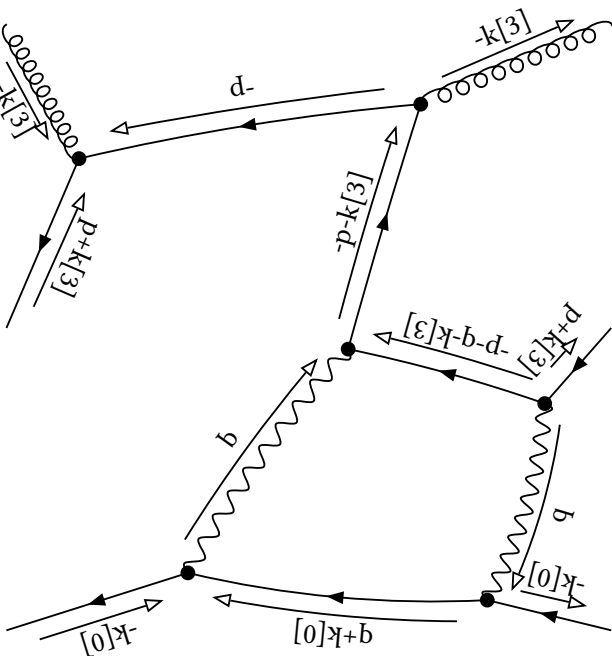
$$\text{prop}[0,k[3]]^{-1} \text{prop}[0,-p]^{-1} \text{prop}[0,-p-k[3]]^{-2} \text{prop}[0,-p-q-k[3]]^{-1}$$

Partial Fractioned Denominator:

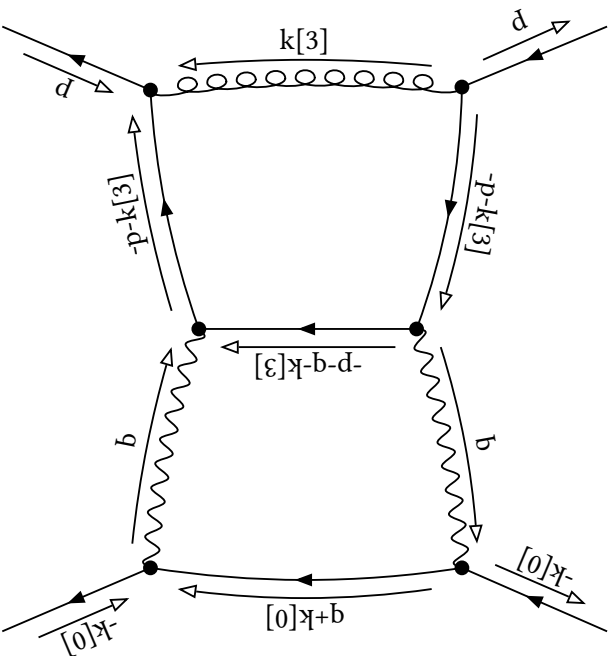
$$\text{prop}[0,k[3]]^{-1} \text{prop}[0,-p-k[3]]^{-2} \text{prop}[0,-p-q-k[3]]^{-1} \text{dot}[p,p]^{-1}$$



-3-11-14



-3-13-14

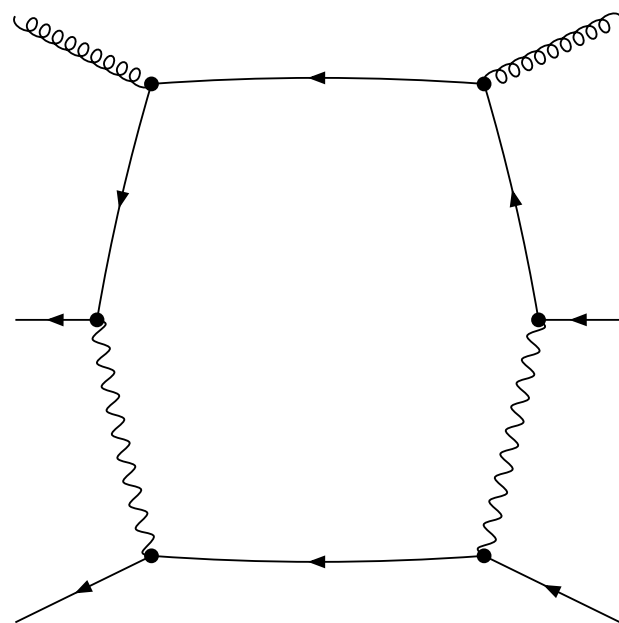


-3-17

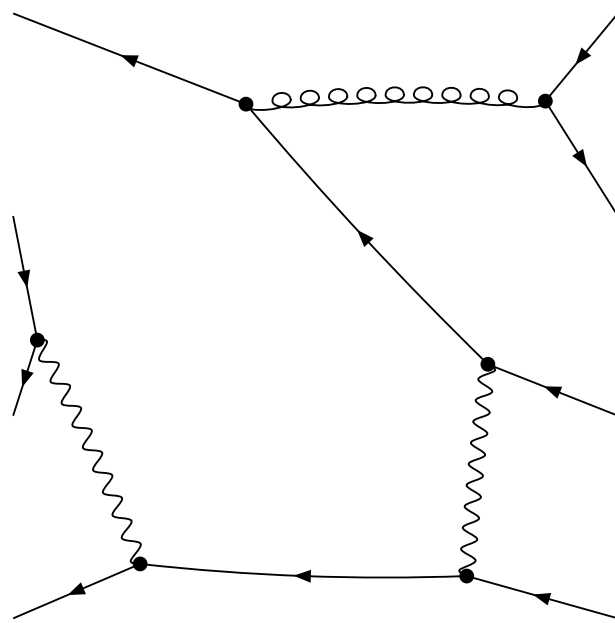
final

Denominator:

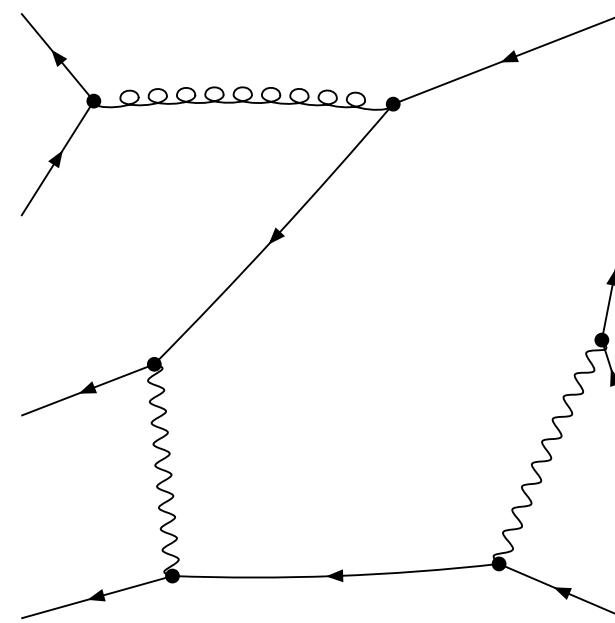
$\text{prop}[0,k[3]]^{-1} \text{prop}[0,-p+q]^{-1} \text{prop}[0,-p-k[3]]^{-1} \text{prop}[0,-p+q-k[3]]^{-2}$



-1-9-14



-1-9+13-17



-1-9+11-17

embedding 42 [1, 1, 1, 2]

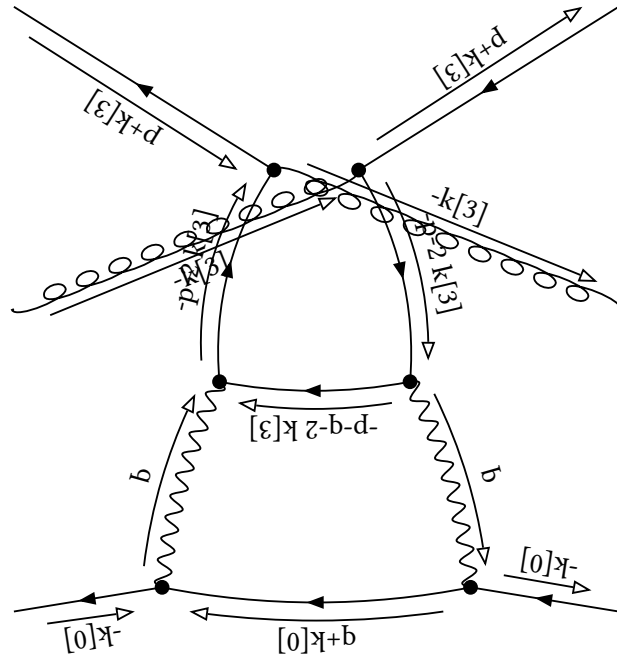
initial

Denominator:

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

Partial Fractioned Denominator:

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



final

Denominator:

0

embedding 43 [1, 1, 2, -1]

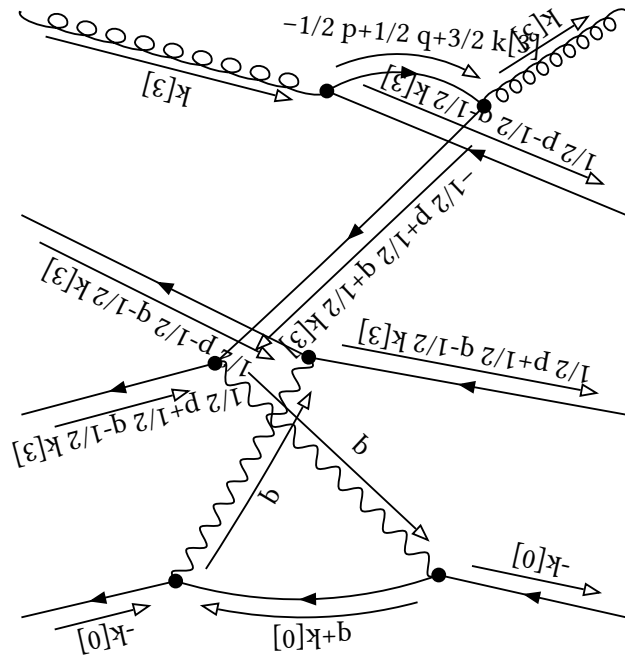
initial

Denominator:

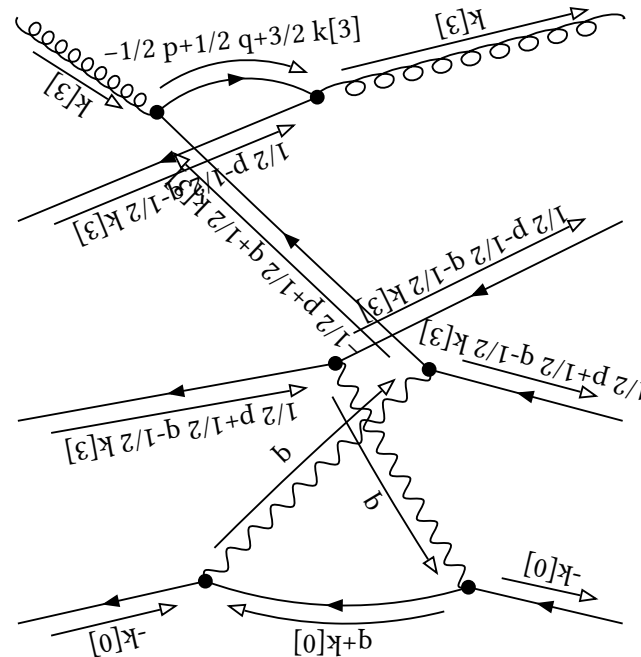
$$\text{prop}[0, k[3]]^{-1} \text{prop}[0, -1/2 p + 1/2 q + 1/2 k[3]]^{-2} \text{prop}[0, -1/2 p + 1/2 q + 3/2 k[3]]^{-1} \text{prop}[0, -1/2 p - 1/2 q + 1/2 k[3]]^{-1}$$

Partial Fractioned Denominator:

$$\begin{aligned} & -3 (-1/2 \text{dot}[p, p] + \text{dot}[p, q] - 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, -1/2 p + 1/2 q + 1/2 k[3]]^{-1} \text{prop}[0, -1/2 p - 1/2 q + 1/2 k[3]]^{-1} \\ & + 9 (-1/2 \text{dot}[p, p] + \text{dot}[p, q] - 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, k[3]]^{-1} \text{prop}[0, -1/2 p + 1/2 q + 3/2 k[3]]^{-1} \text{prop}[0, -1/2 p - 1/2 q + 1/2 k[3]]^{-1} \\ & + 9/2 (-1/2 \text{dot}[p, p] + \text{dot}[p, q] - 1/2 \text{dot}[q, q])^{-2} \text{prop}[0, -1/2 p + 1/2 q + 1/2 k[3]]^{-1} \text{prop}[0, -1/2 p + 1/2 q + 3/2 k[3]]^{-1} \text{prop}[0, -1/2 p - 1/2 q + 1/2 k[3]]^{-1} \\ & k[3]]^{-1} \\ & + (-1/2 \text{dot}[p, p] + \text{dot}[p, q] - 1/2 \text{dot}[q, q])^{-1} \text{prop}[0, k[3]]^{-1} \text{prop}[0, -1/2 p + 1/2 q + 1/2 k[3]]^{-2} \text{prop}[0, -1/2 p - 1/2 q + 1/2 k[3]]^{-1} \\ & - 3/2 (-1/2 \text{dot}[p, p] + \text{dot}[p, q] - 1/2 \text{dot}[q, q])^{-1} \text{prop}[0, -1/2 p + 1/2 q + 1/2 k[3]]^{-2} \text{prop}[0, -1/2 p + 1/2 q + 3/2 k[3]]^{-1} \text{prop}[0, -1/2 p - 1/2 q + 1/2 k[3]]^{-1} \\ & k[3]]^{-1} \end{aligned}$$



-3-9-11+14



-3-9-13+14

final

Denominator:

0

embedding 44 [1, 1, 2, 0]

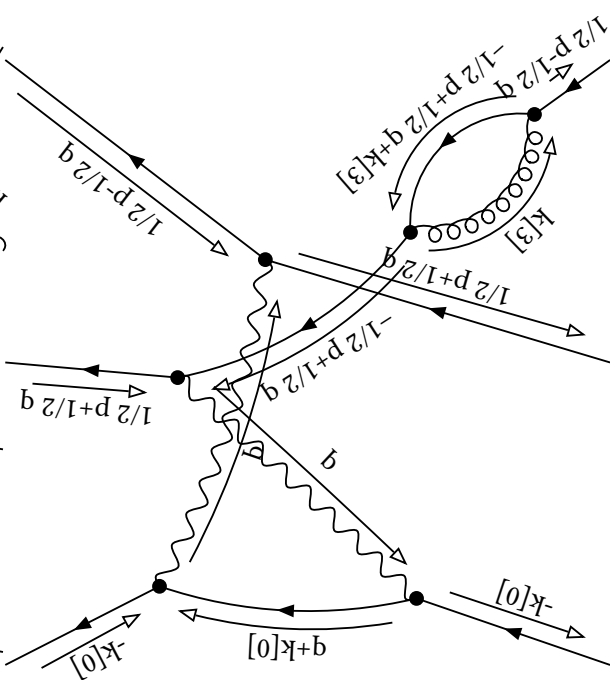
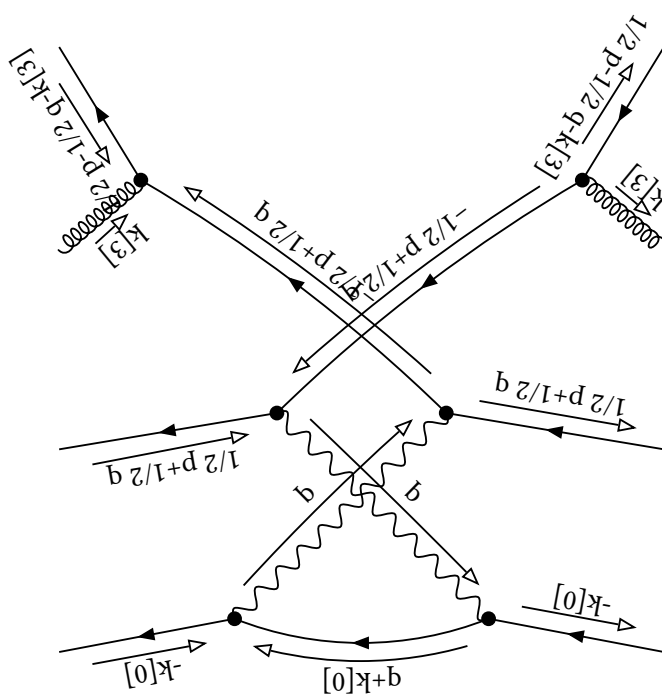
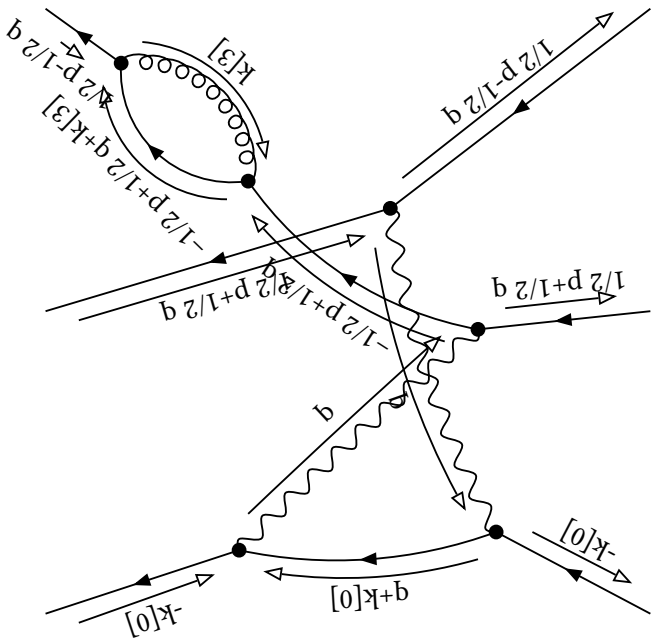
initial

Denominator:

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

Partial Fractioned Denominator:

$(1/4 \text{dot}[p,p]-1/2 \text{dot}[p,q]+1/4 \text{dot}[q,q])^{-2} (1/4 \text{dot}[p,p]+1/2 \text{dot}[p,q]+1/4 \text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,-1/2 p+1/2 q+k[3]]^{-1}$



final

Denominator:

0

embedding 45 [1, 1, 2, 1]

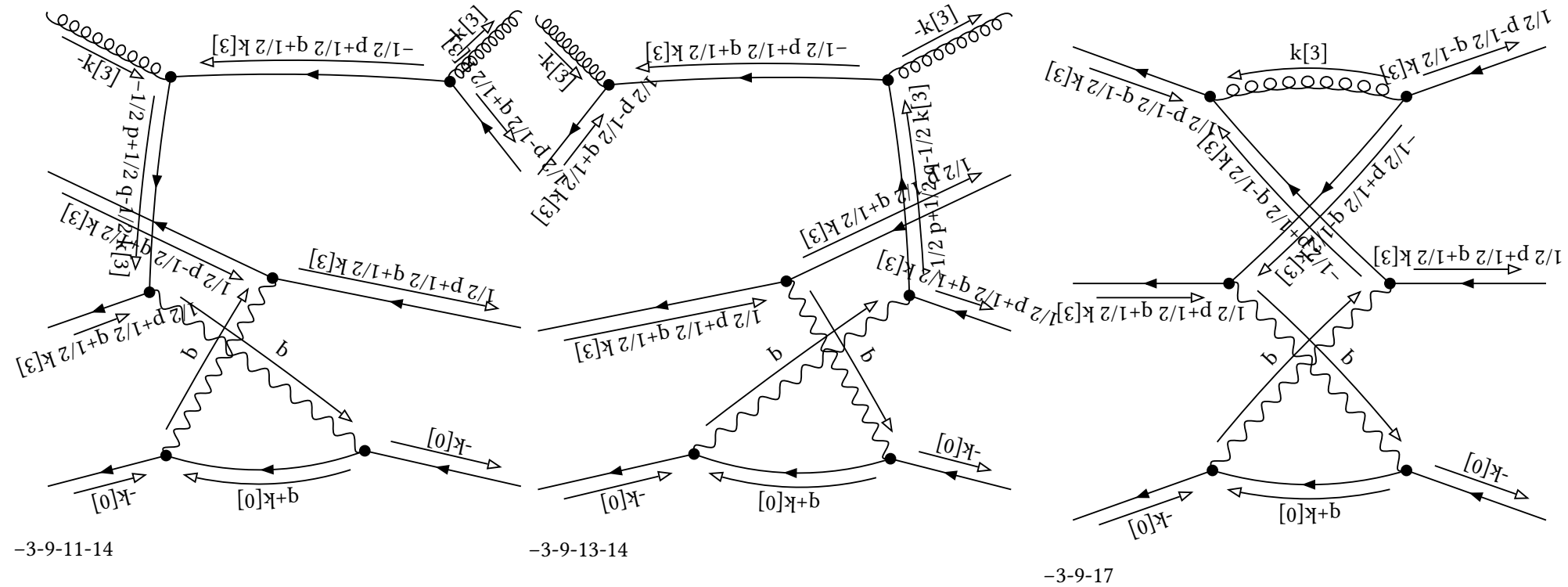
initial

Denominator:

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

Partial Fractioned Denominator:

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



final

Denominator:

0

embedding 46 [1, 1, 2, 2]

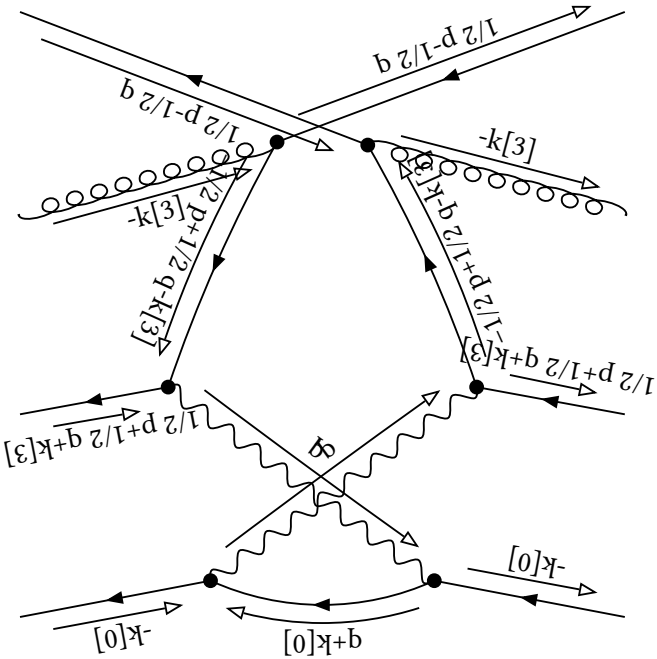
initial

Denominator:

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

Partial Fractioned Denominator:

$(1/4 \, \text{dot}[p,p]-1/2 \, \text{dot}[p,q]+1/4 \, \text{dot}[q,q])^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,-1/2 \, p+1/2 \, q-k[3]]^{-2} \text{prop}[0,-1/2 \, p-1/2 \, q-k[3]]^{-1}$



final

Denominator:

0

embedding 47 [1, 2, 0, -1]

initial

Denominator:

0

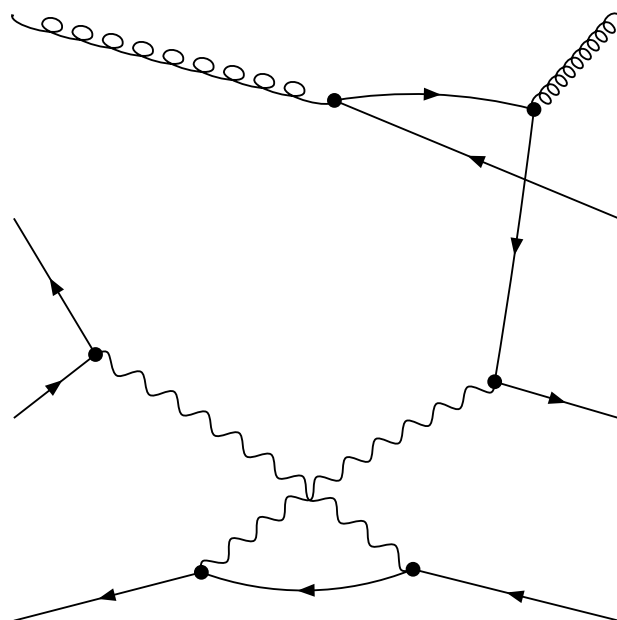
Partial Fractioned Denominator:

0

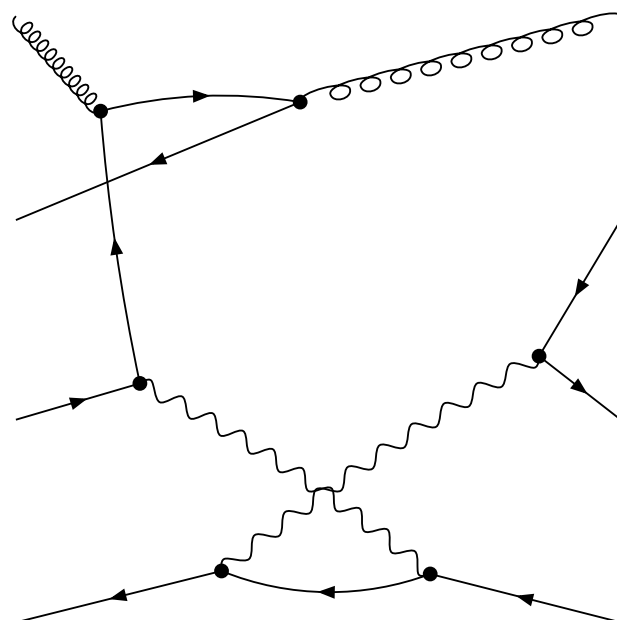
final

Denominator:

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



$-1+9-11+14$



$-1+9-13+14$

embedding 48 [1, 2, 0, 0]

initial

Denominator:

0

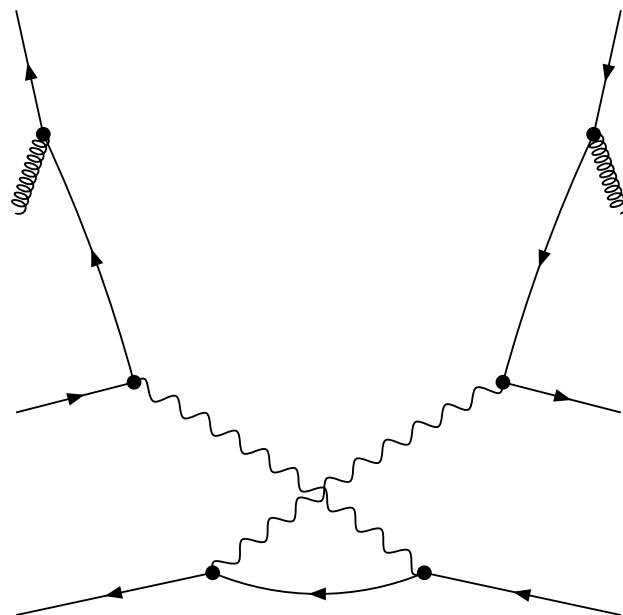
Partial Fractioned Denominator:

0

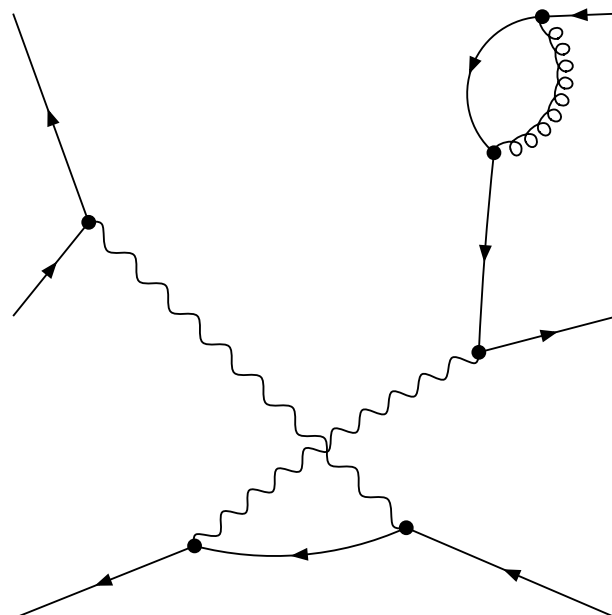
final

Denominator:

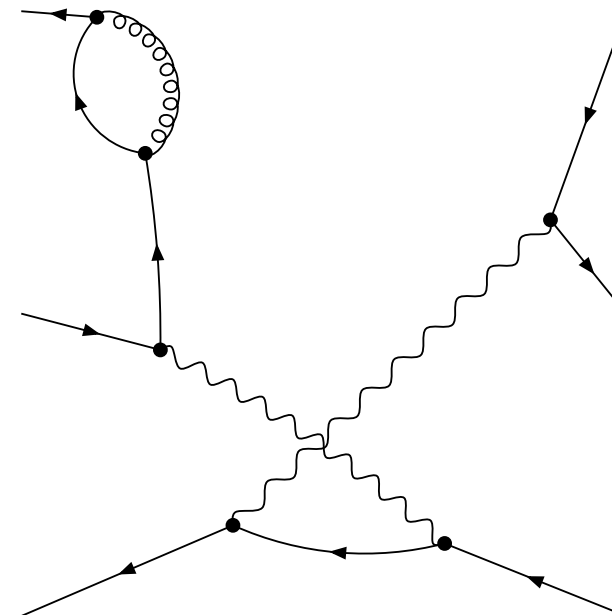
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,k[3]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,q+k[2]+k[3]]^{-1}$



-1+9+14-17



-1+9-11



-1+9-13

embedding 49 [1, 2, 0, 1]

initial

Denominator:

0

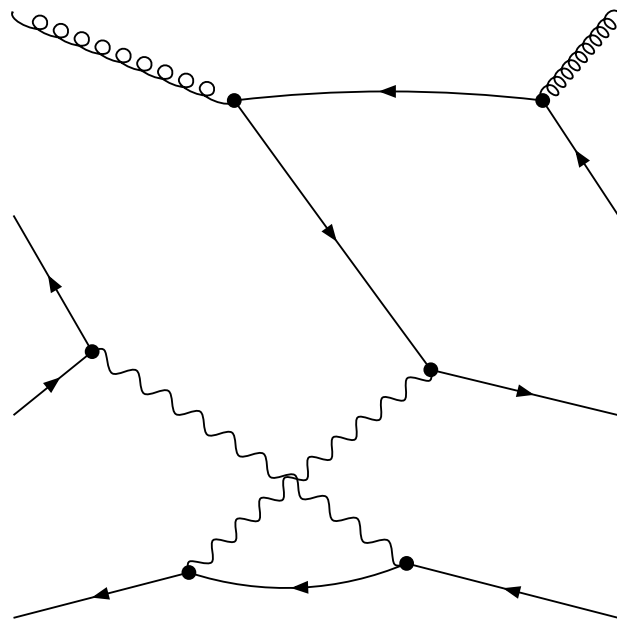
Partial Fractioned Denominator:

0

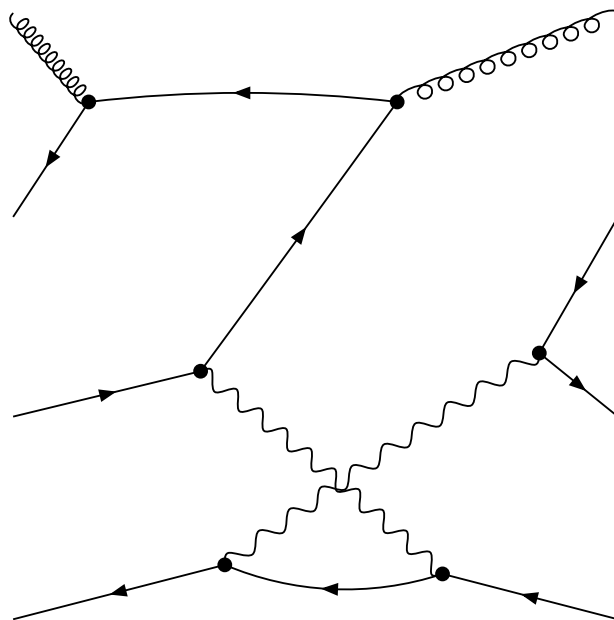
final

Denominator:

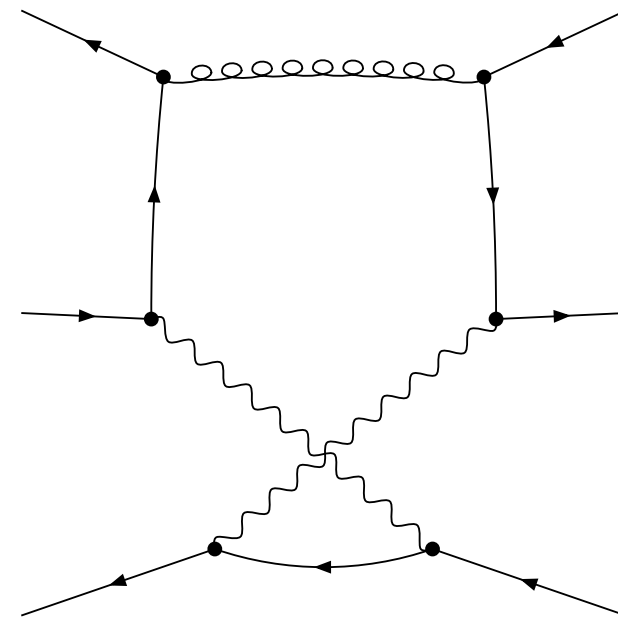
$\text{prop}[0,k[2]]^{-1} \text{prop}[0,q+k[2]]^{-2} \text{prop}[0,-p+k[2]]^{-1} \text{prop}[0,-p-q]^{-1}$



-1+9-11-14



-1+9-13-14



-1+9-17

embedding 50 [1, 2, 0, 2]

initial

Denominator:

0

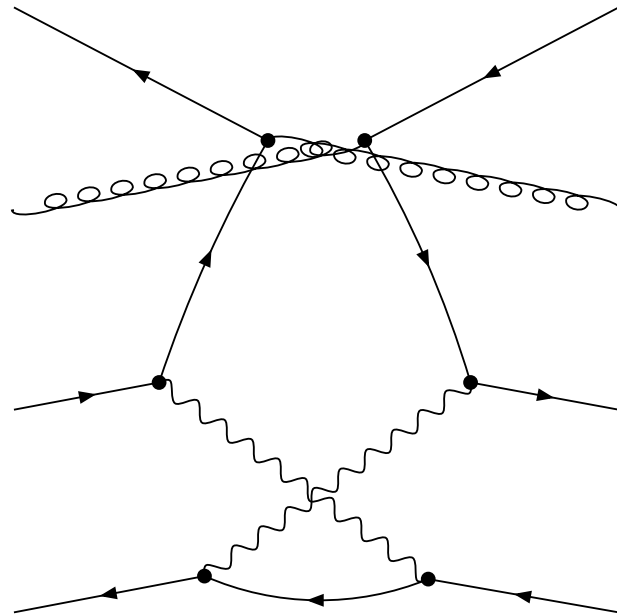
Partial Fractioned Denominator:

0

final

Denominator:

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



-1+9-14-17

embedding 51 [1, 2, 1, -1]

initial

Denominator:

0

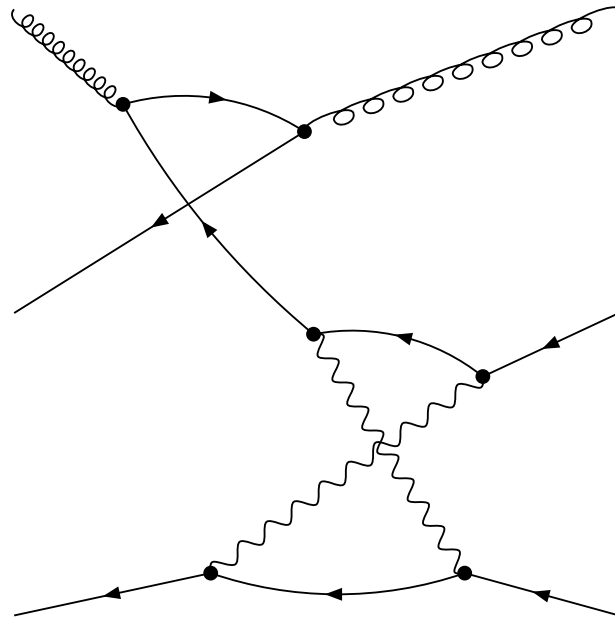
Partial Fractioned Denominator:

0

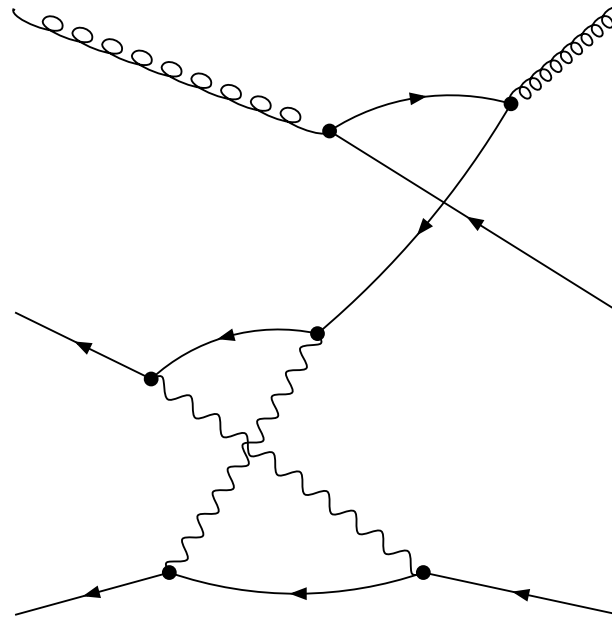
final

Denominator:

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



-1-13+14



-1-11+14

embedding 52 [1, 2, 1, 0]

initial

Denominator:

0

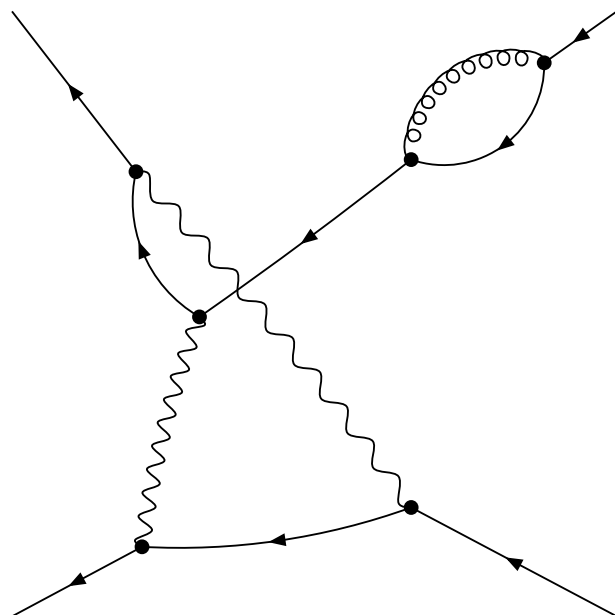
Partial Fractioned Denominator:

0

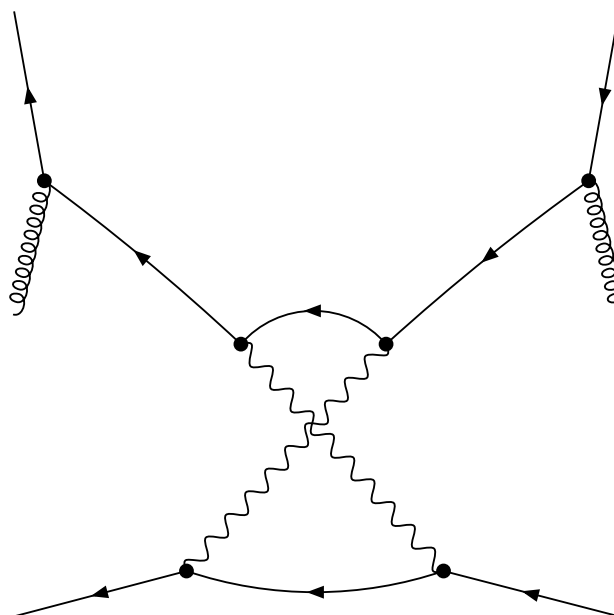
final

Denominator:

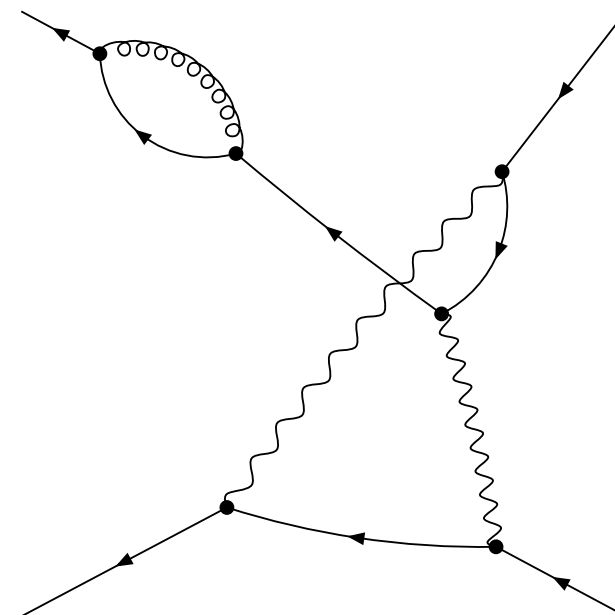
$\text{prop}[0,k[3]]^{-1} \text{prop}[0,-p]^{-2} \text{prop}[0,-p+k[3]]^{-1} \text{prop}[0,-p-q]^{-1}$



-1-11



-1+14-17



-1-13

embedding 53 [1, 2, 1, 1]

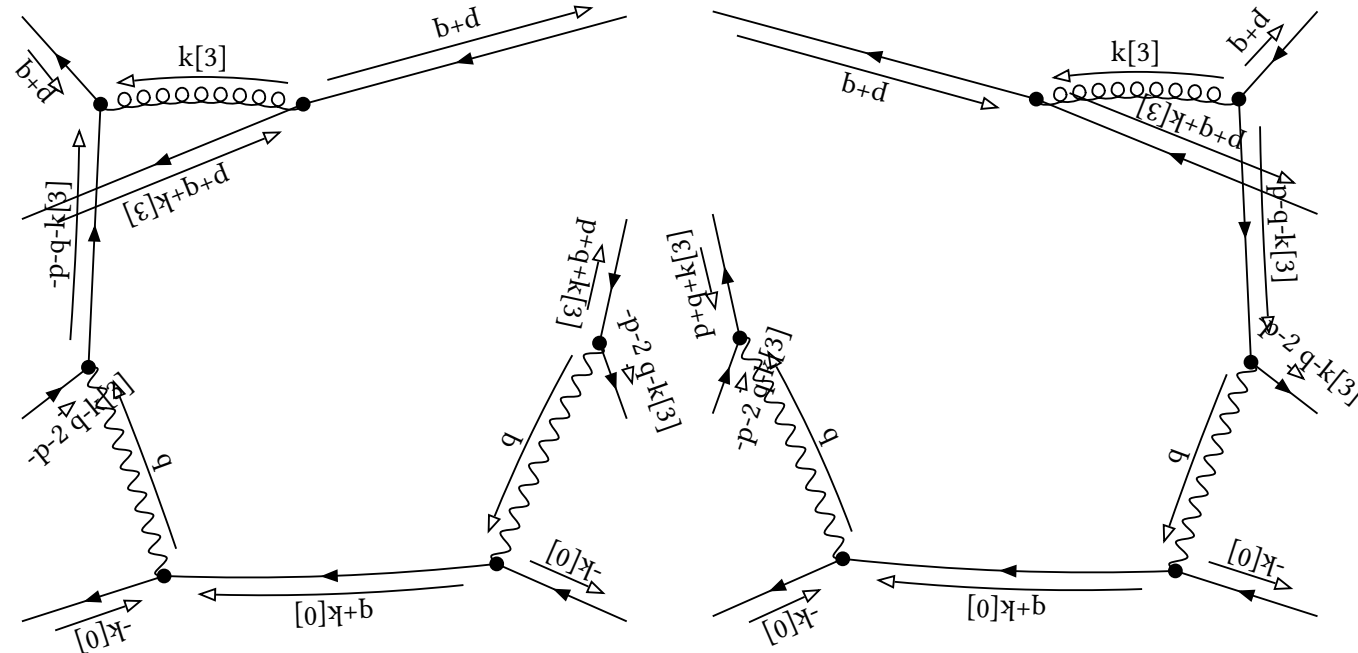
initial

Denominator:

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

Partial Fractioned Denominator:

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



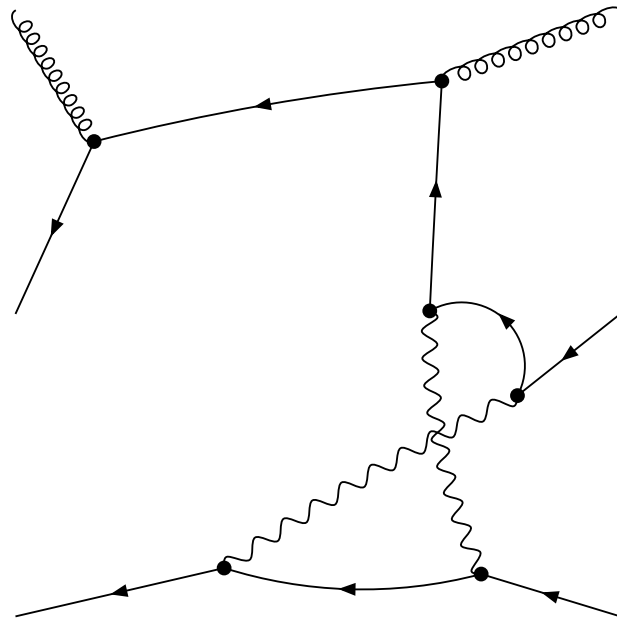
-3+9-13-17

-3+9-11-17

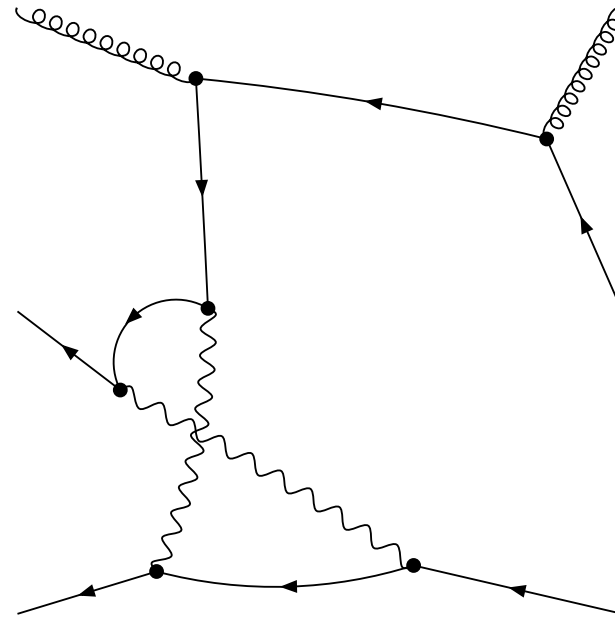
final

Denominator:

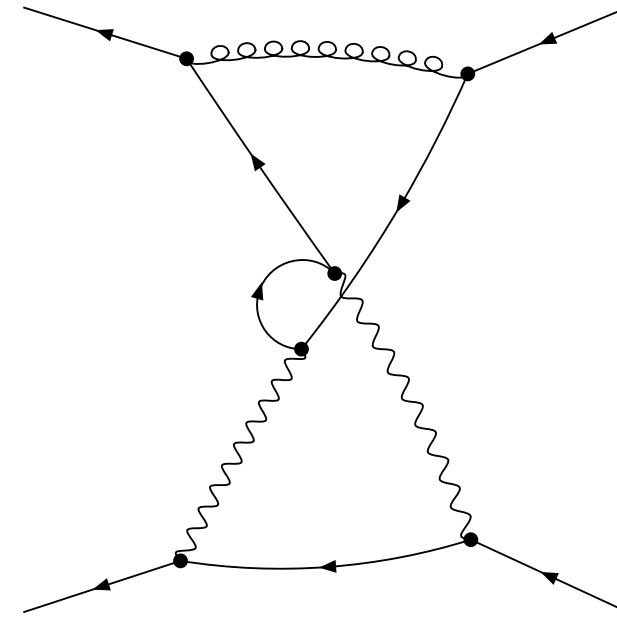
$\text{prop}[0,k[3]]^{-1} \text{prop}[0,-p]^{-1} \text{prop}[0,-p-k[3]]^{-2} \text{prop}[0,-p-q-k[3]]^{-1}$



-1-13-14



-1-11-14



-1-17

embedding 54 [1, 2, 1, 2]

initial

Denominator:

0

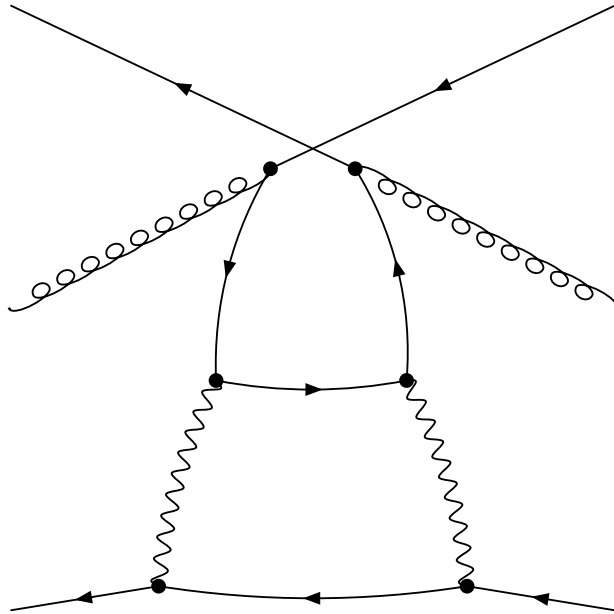
Partial Fractioned Denominator:

0

final

Denominator:

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



-1-14-17

embedding 55 [1, 2, 2, -1]

initial

Denominator:

0

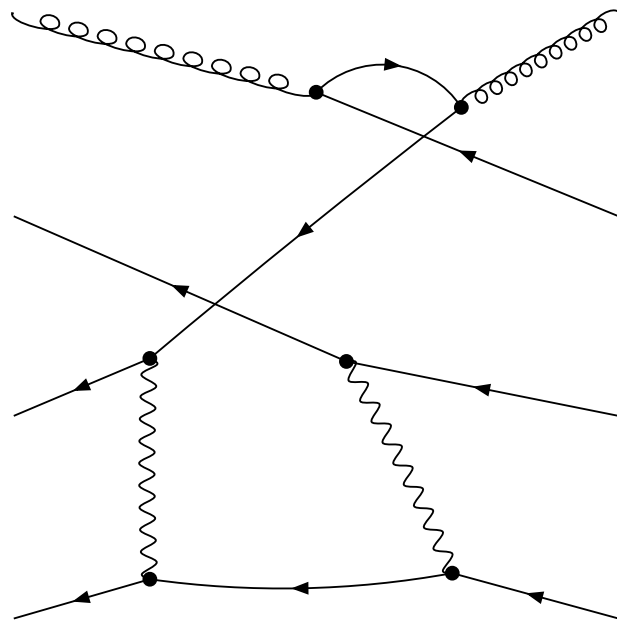
Partial Fractioned Denominator:

0

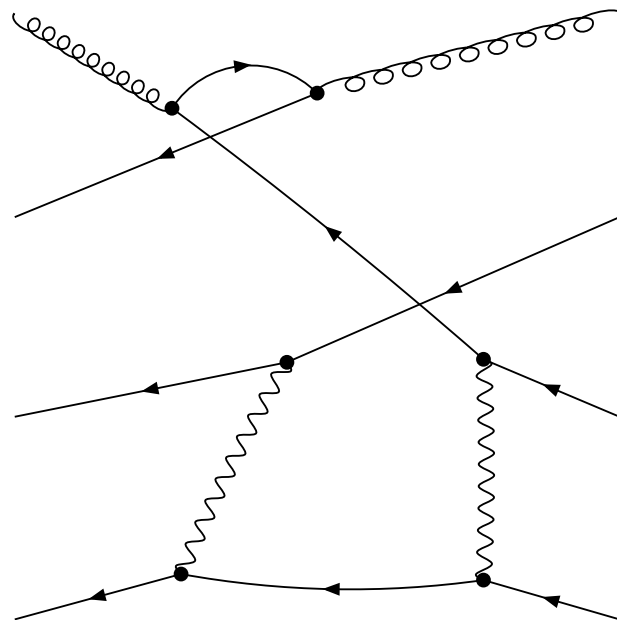
final

Denominator:

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



-1-9-11+14



-1-9-13+14

embedding 56 [1, 2, 2, 0]

initial

Denominator:

0

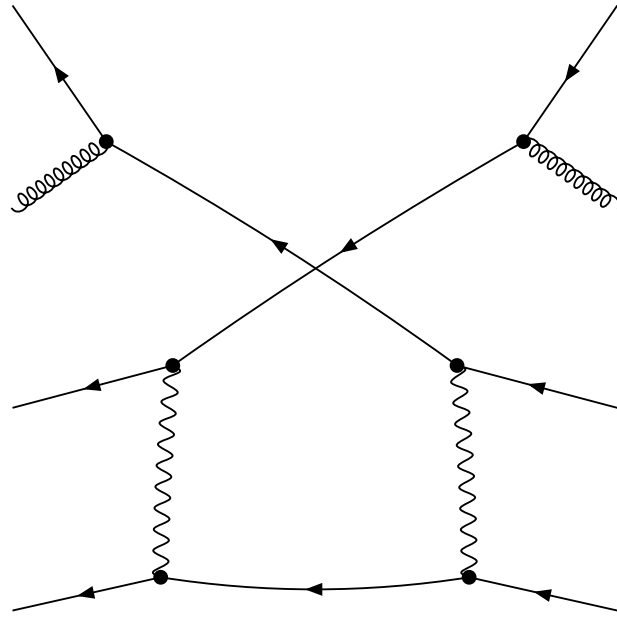
Partial Fractioned Denominator:

0

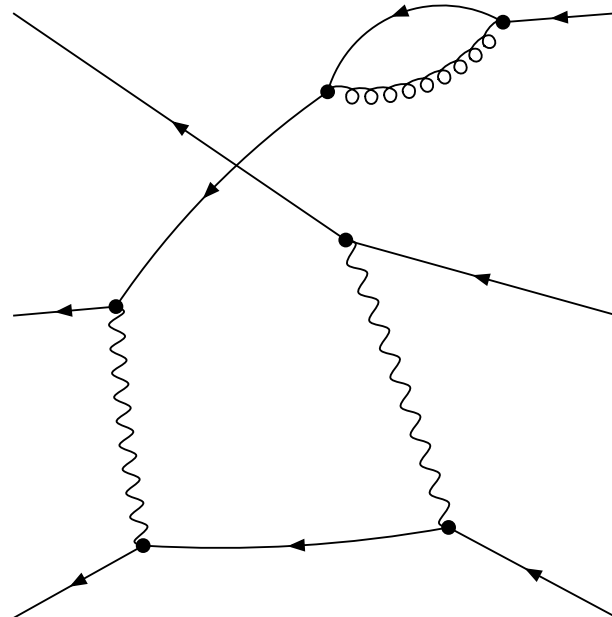
final

Denominator:

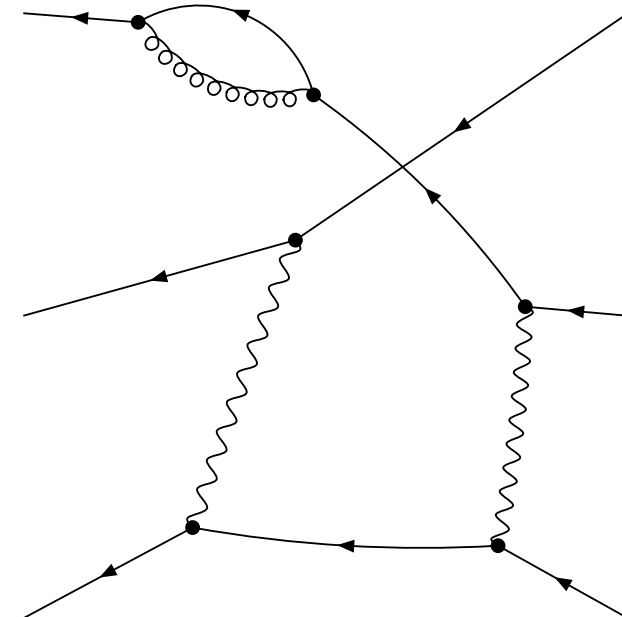
$\text{prop}[0,k[3]]^{-1} \text{prop}[0,-1/2 \ p+1/2 \ q]^{-2} \text{prop}[0,-1/2 \ p-1/2 \ q]^{-1} \text{prop}[0,-1/2 \ p+1/2 \ q+k[3]]^{-1}$



-1-9+14-17



-1-9-11



-1-9-13

embedding 57 [1, 2, 2, 1]

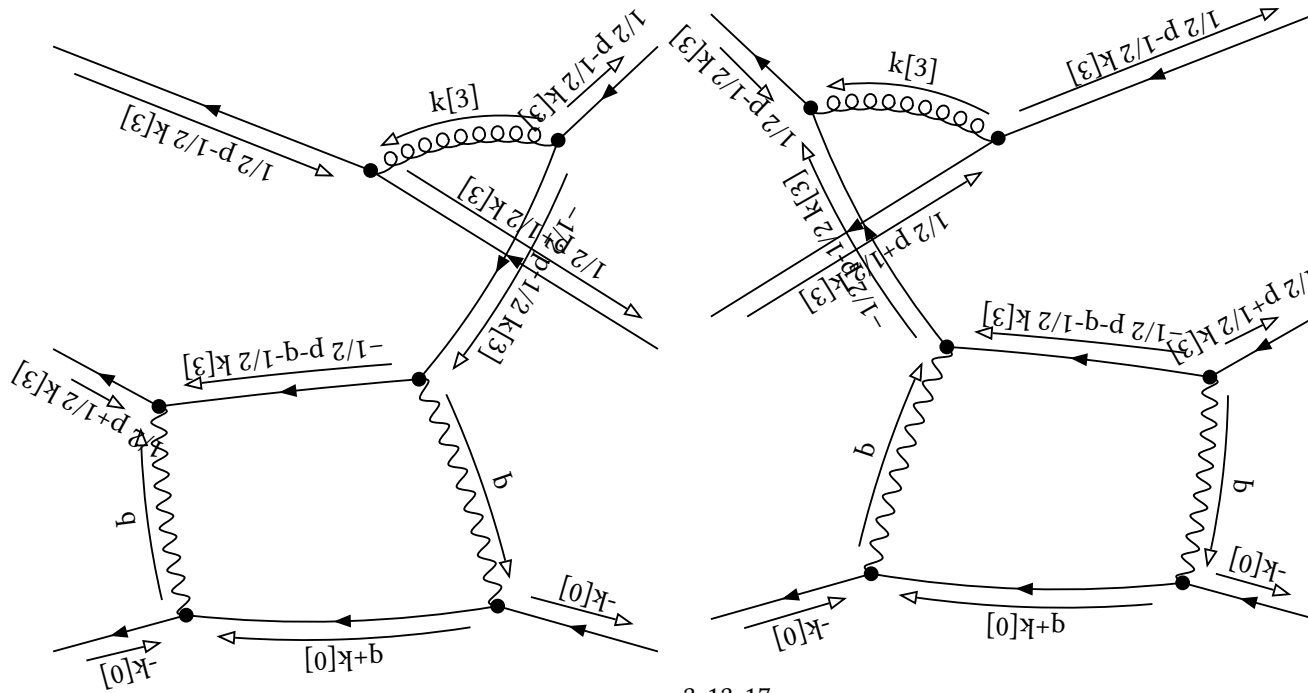
initial

Denominator:

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

Partial Fractioned Denominator:

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



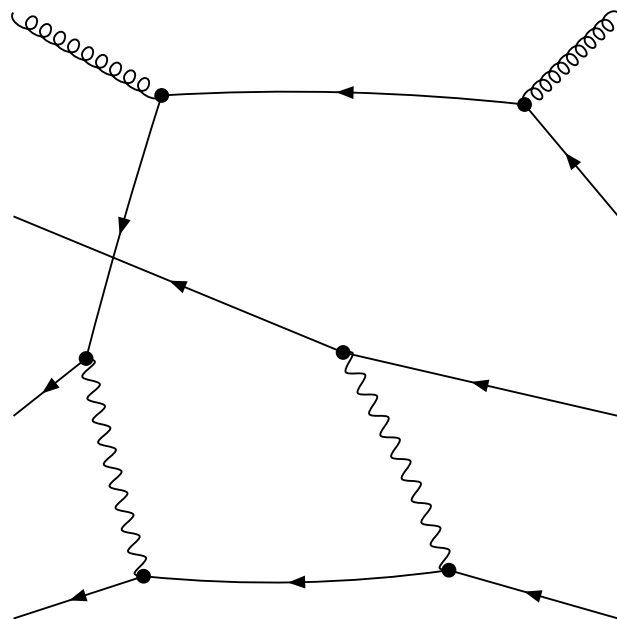
-3-13-17

-3-11-17

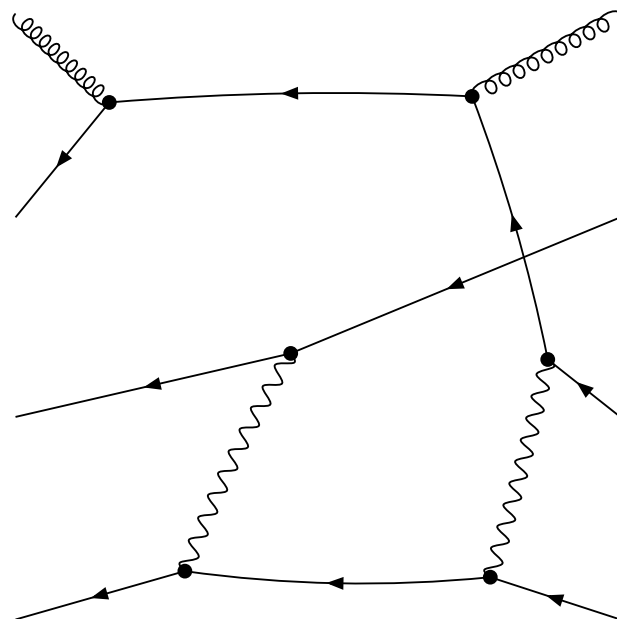
final

Denominator:

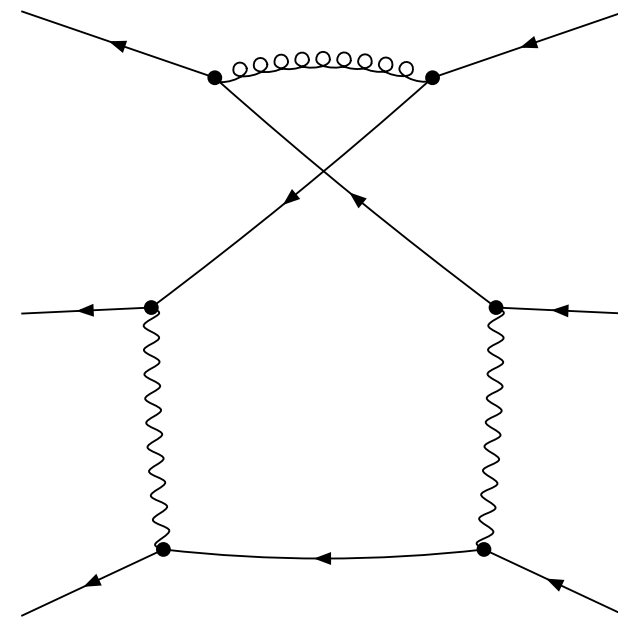
$\text{prop}[0,k[3]]^{-1} \text{prop}[0,-1/2 \ p+1/2 \ q+1/2 \ k[3]]^{-1} \text{prop}[0,-1/2 \ p+1/2 \ q-1/2 \ k[3]]^{-2} \text{prop}[0,-1/2 \ p-1/2 \ q-1/2 \ k[3]]^{-1}$



-1-9-11-14



-1-9-13-14



-1-9-17

embedding 58 [1, 2, 2, 2]

initial

Denominator:

0

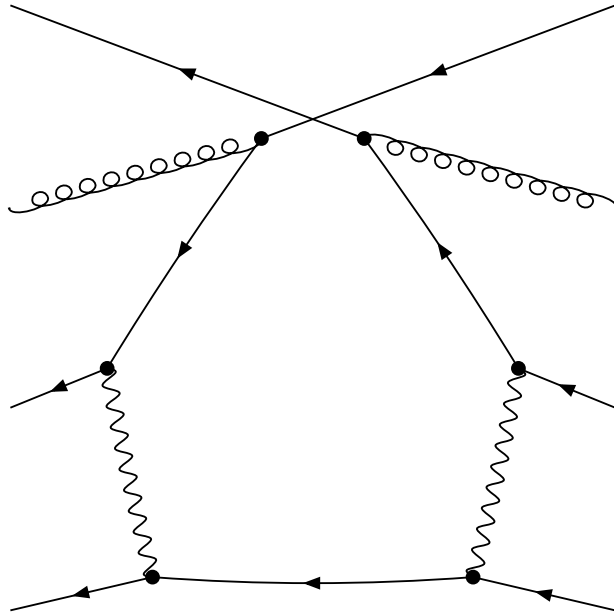
Partial Fractioned Denominator:

0

final

Denominator:

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



-1-9-14-17

embedding 59 [1, 2, 3, 1]

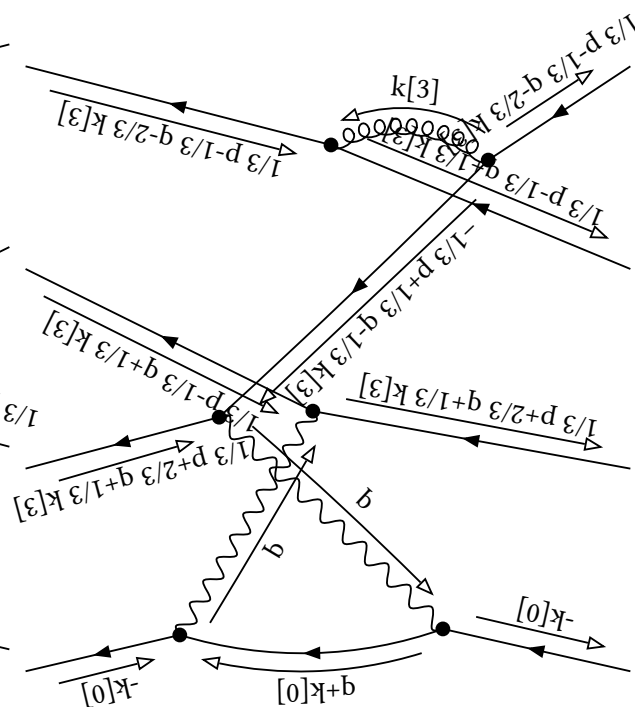
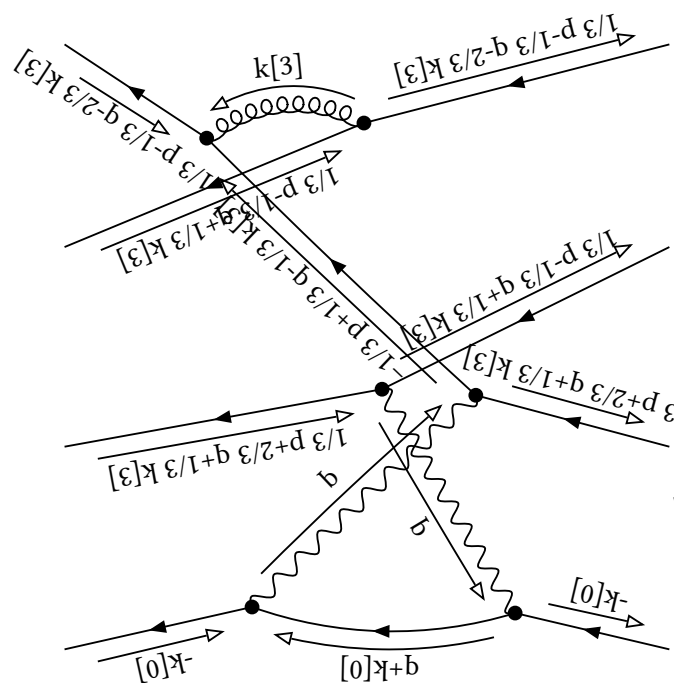
initial

Denominator:

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

Partial Fractioned Denominator:

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



final

Denominator:

0

embedding 60 [1, 3, 1, 1]

initial

Denominator:

0

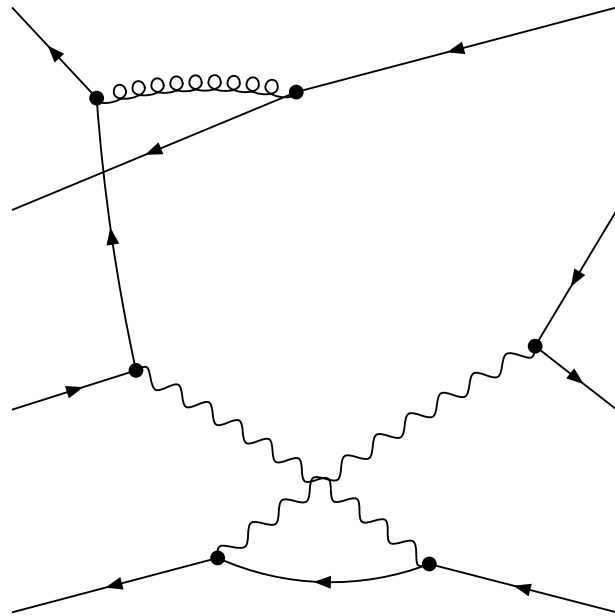
Partial Fractioned Denominator:

0

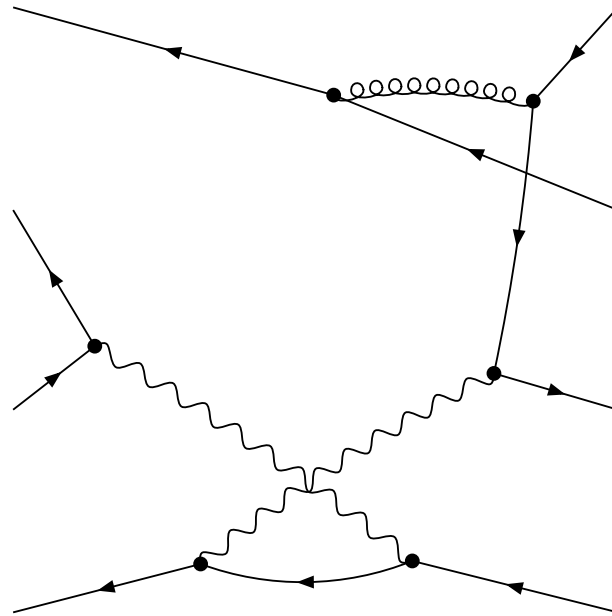
final

Denominator:

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



-1+9-13-17



-1+9-11-17

embedding 61 [1, 3, 2, 1]

initial

Denominator:

0

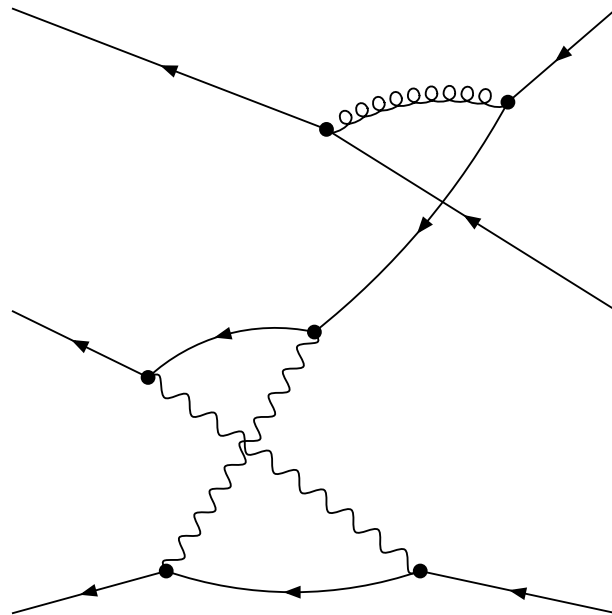
Partial Fractioned Denominator:

0

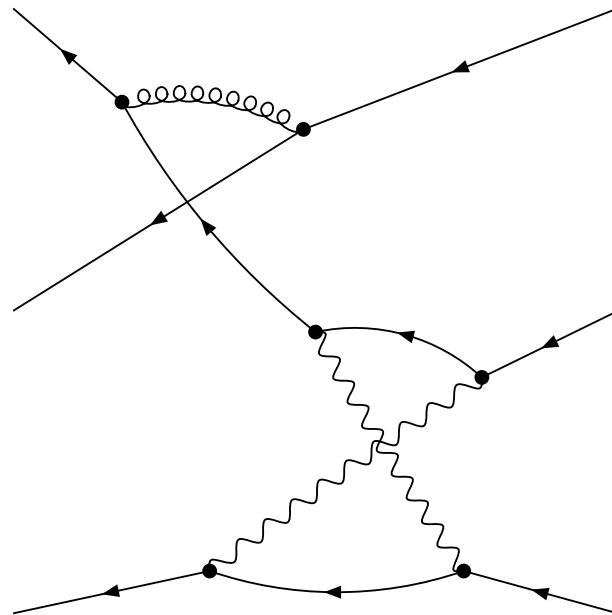
final

Denominator:

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



-1-11-17



-1-13-17

embedding 62 [1, 3, 3, 1]

initial

Denominator:

0

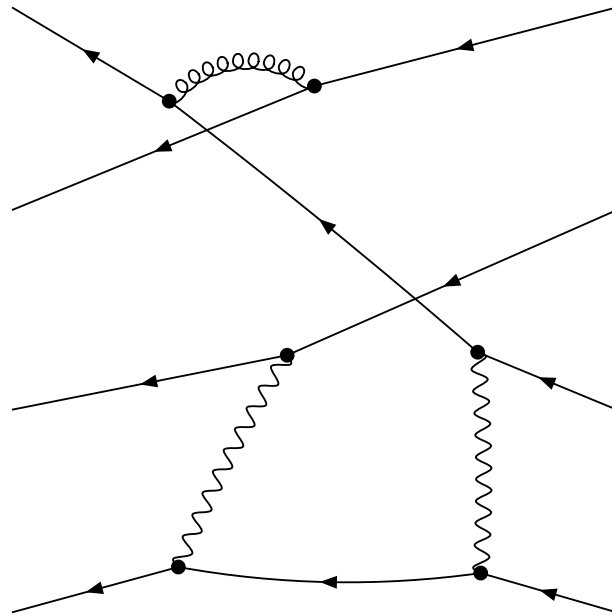
Partial Fractioned Denominator:

0

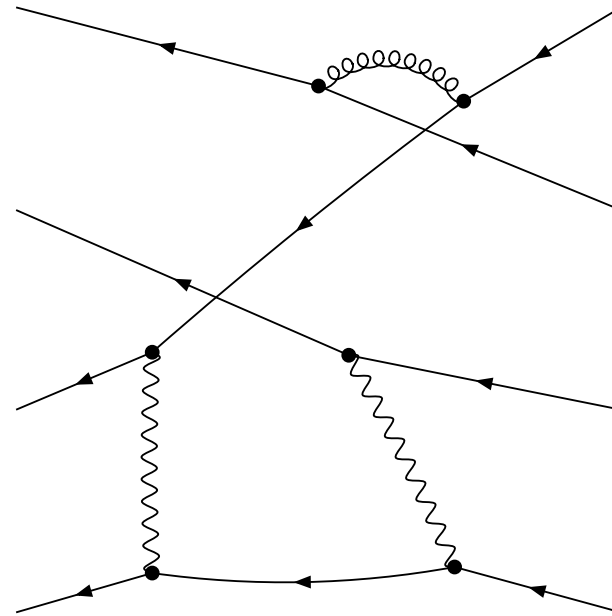
final

Denominator:

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



-1-9-13-17



-1-9-11-17

