embedding 1 [1, 0, −2, −1, −1]

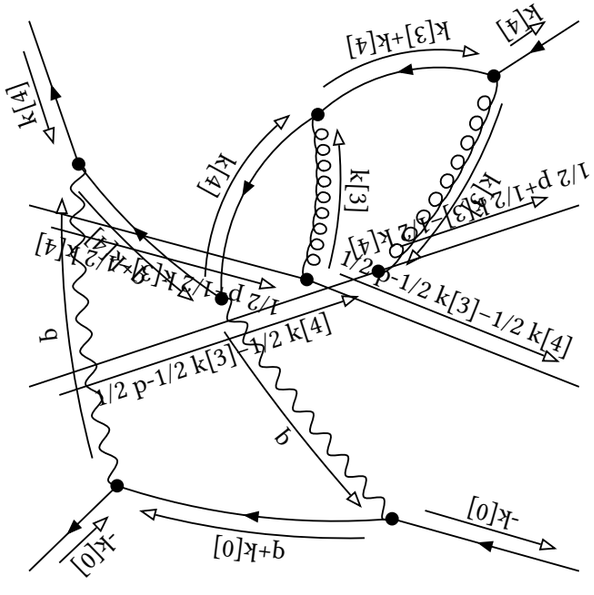
initial

Denominator:

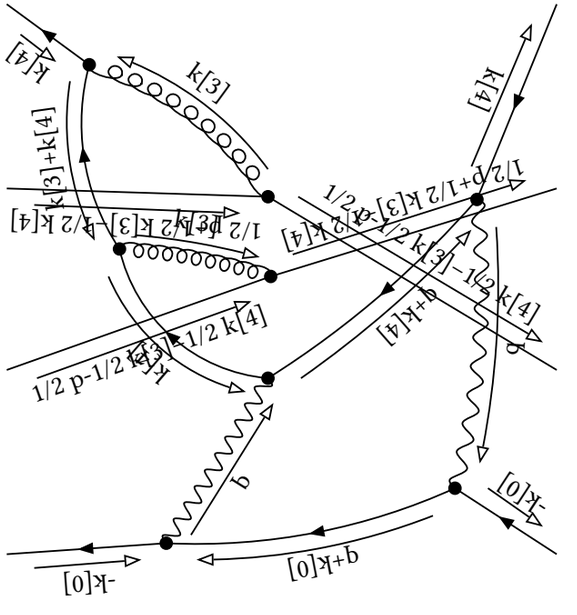
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,1/2 p+1/2 k[3]-1/2 k[4]]^-1 prop[0,1/2 p-1/2 k[3]-1/2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,1/2 p+1/2 k[3]-1/2 k[4]]^-1 prop[0,1/2 p-1/2 k[3]-1/2 k[4]]^-1 dot[q,q]^-2
```



−3+9+10+20

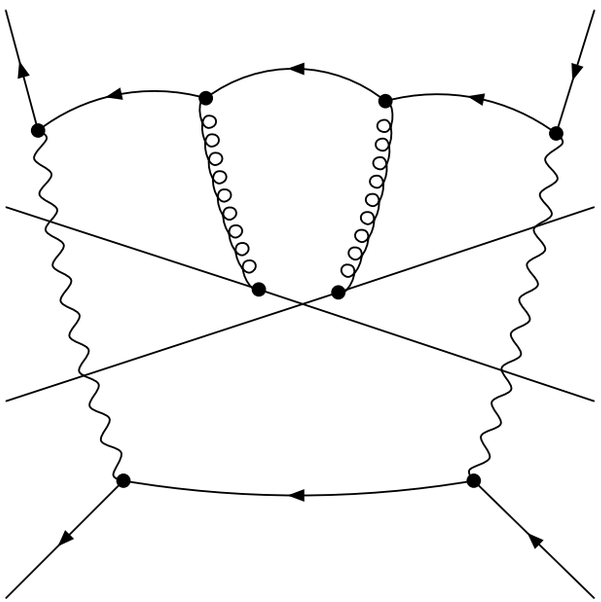


−3+9+10+18

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,1/2 p-1/2 q+1/2 k[3]-1/2 k[4]]^-1 prop[0,1/2 p-1/2 q-1/2 k[3]-1/2
k[4]]^-1
```



−1+9+10+22

embedding 2 [1, 0, −1, −2, −2]

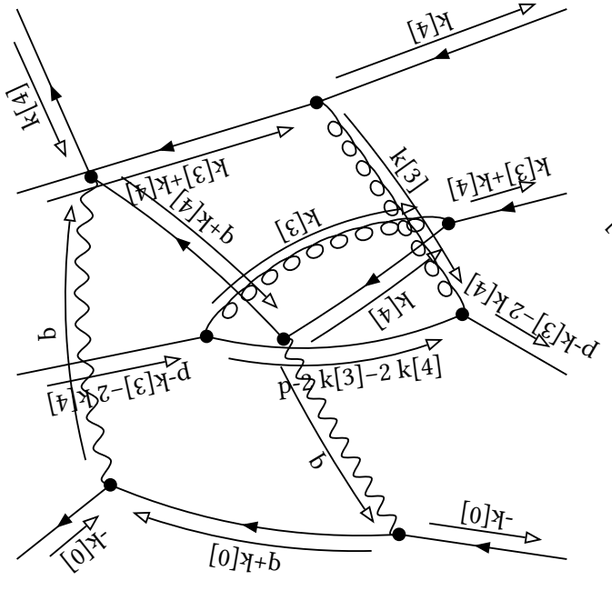
initial

Denominator:

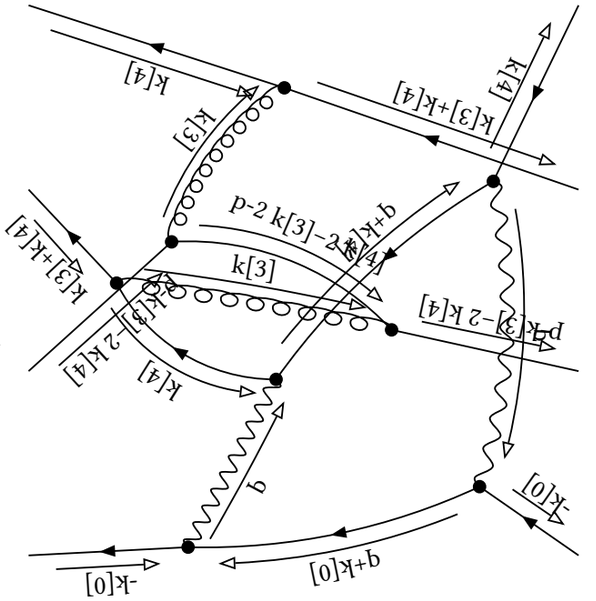
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[3]-2 k[4]]^-1 prop[0,p-2 k[3]-2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[3]-2 k[4]]^-1 prop[0,p-2 k[3]-2 k[4]]^-1 dot[q,q]^-2
```



−3+10+16+20

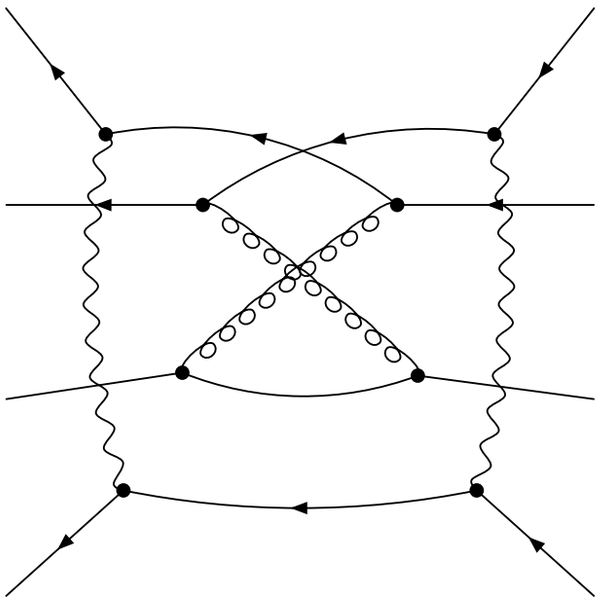


−3+10+16+18

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-q-k[3]-2 k[4]]^-1 prop[0,p-q-2 k[3]-2 k[4]]^-1
```



−1+10+16+22

embedding 3 [1, 0, −1, −2, −1]

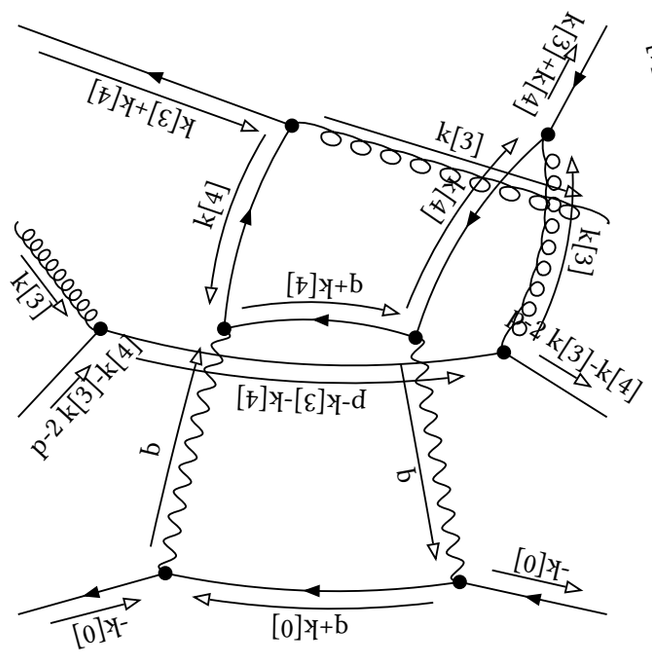
initial

Denominator:

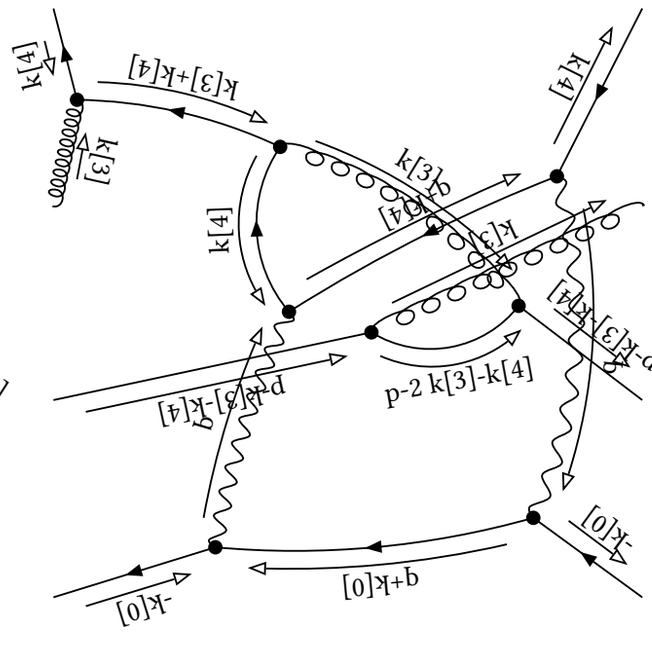
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[3]-k[4]]^-1 prop[0,p-2 k[3]-k[4]]^-1
```

Partial Fractioned Denominator:

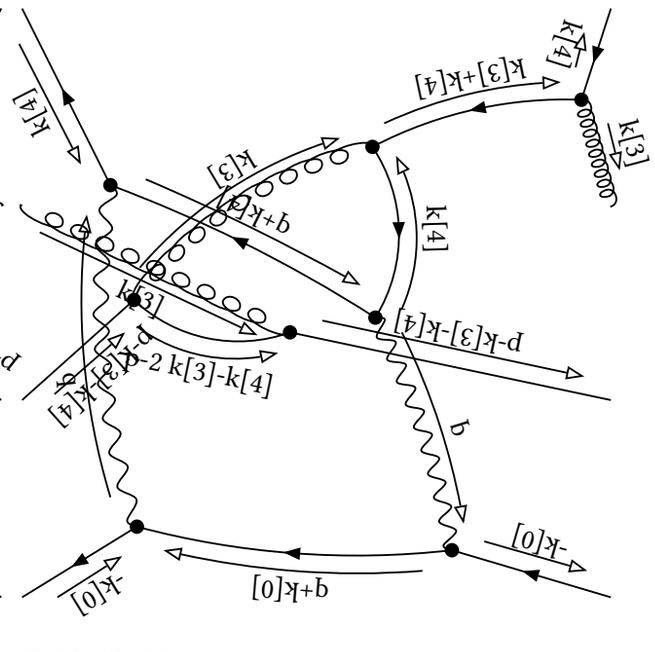
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[3]-k[4]]^-1 prop[0,p-2 k[3]-k[4]]^-1 dot[q,q]^-2
```



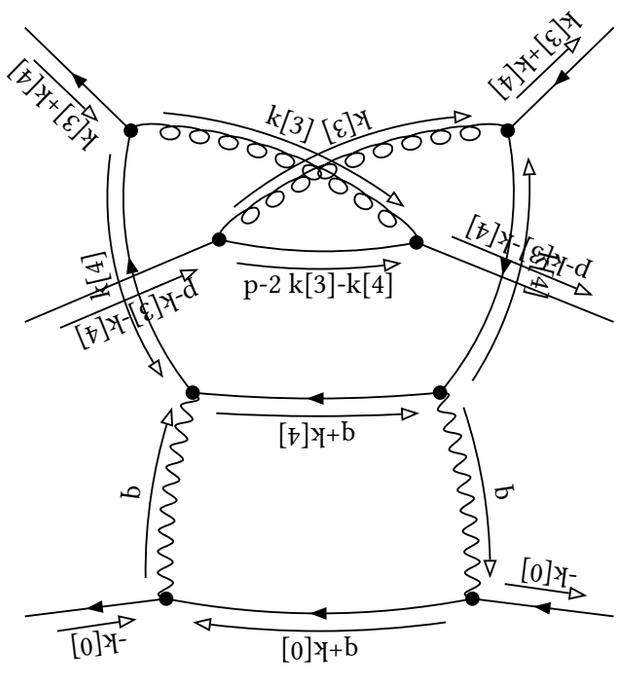
−3+9+13+16



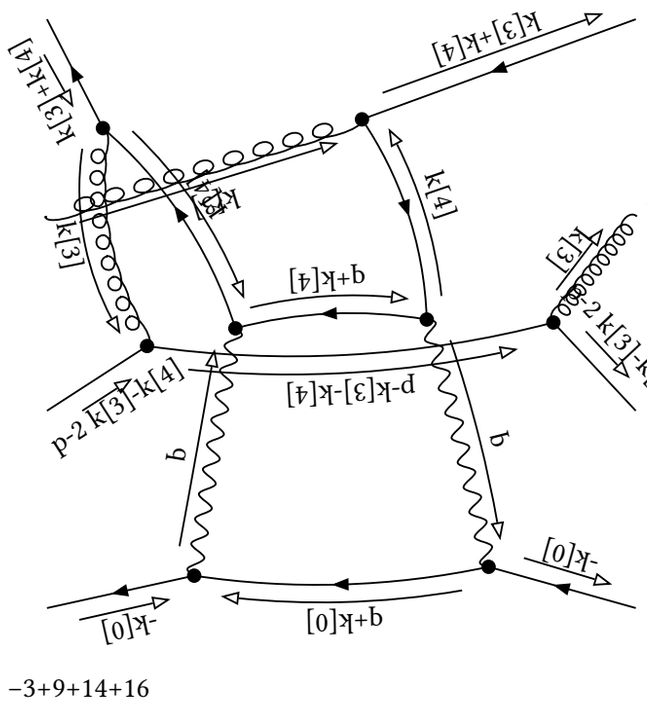
−3+10+14+18



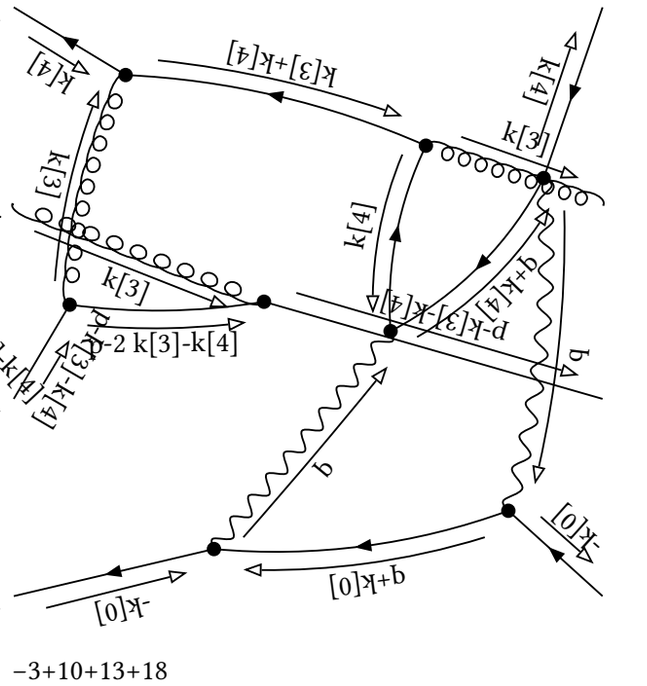
−3+10+13+20



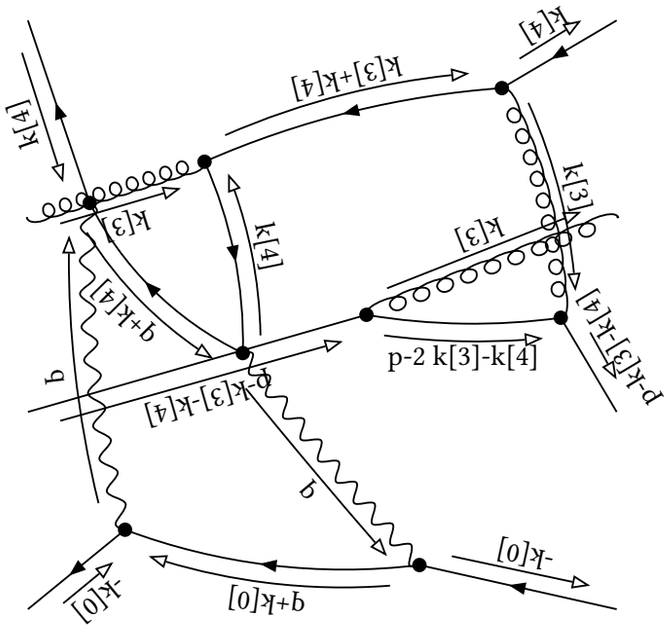
−3+10+16



−3+9+14+16



−3+10+13+18

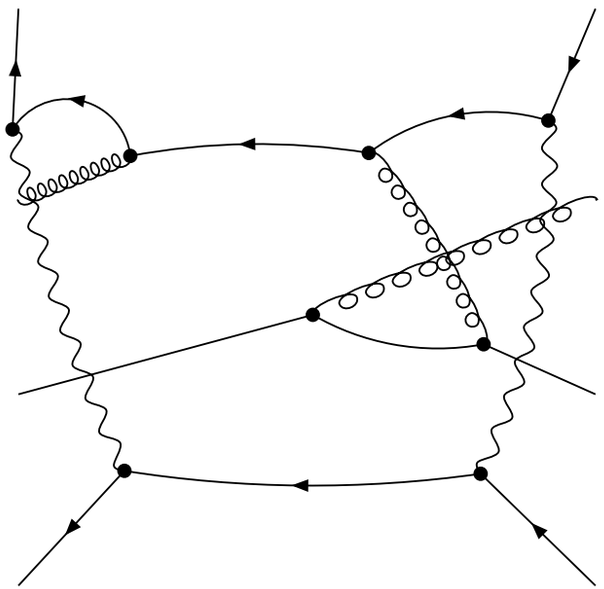


−3+10+14+20

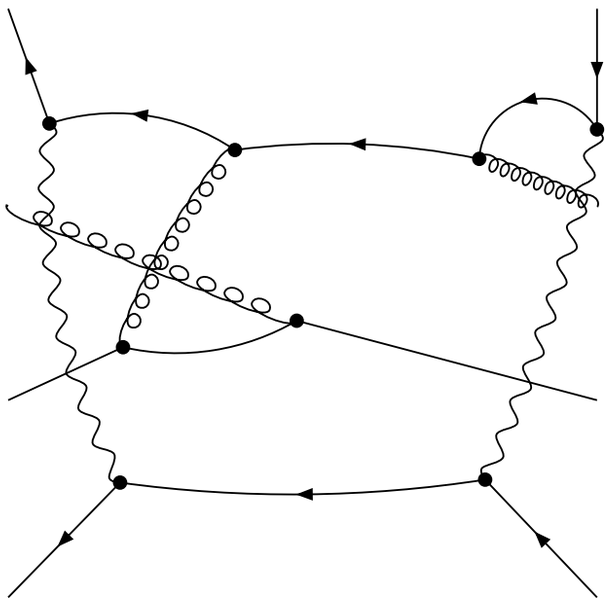
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-q-k[3]-k[4]]^-1 prop[0,p-q-2 k[3]-k[4]]^-1
```



−1+10+14+22



−1+10+13+22

embedding 4 [1, 0, −1, −1, −2]

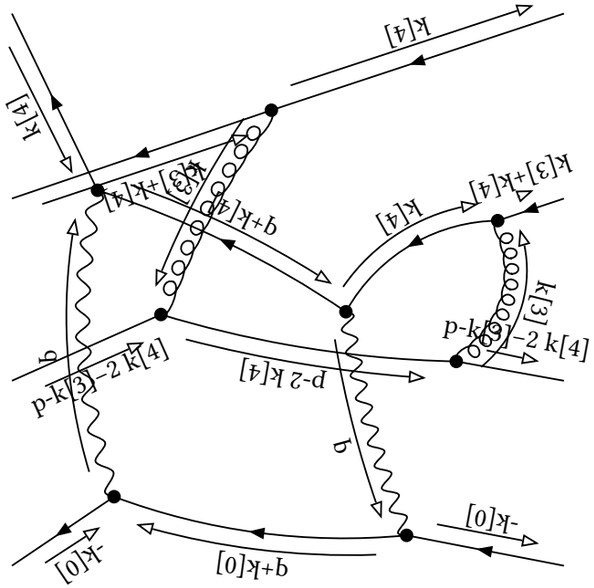
initial

Denominator:

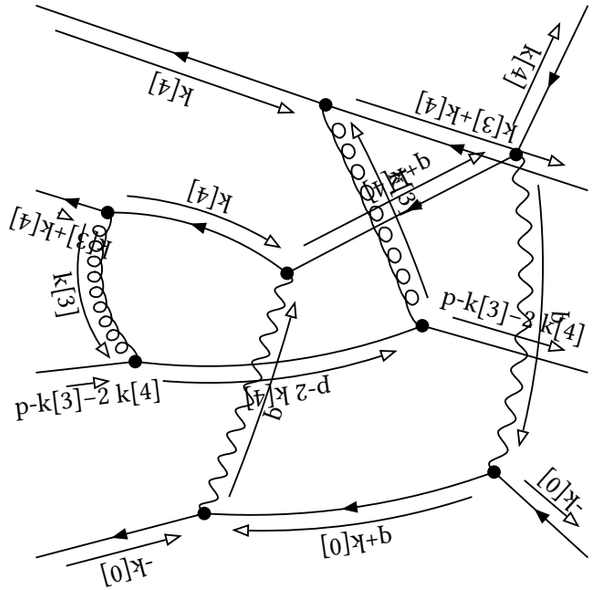
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-2 k[4]]^-1 prop[0,p-k[3]-2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-2 k[4]]^-1 prop[0,p-k[3]-2 k[4]]^-1 dot[q,q]^-2
```



−3+9+16+20

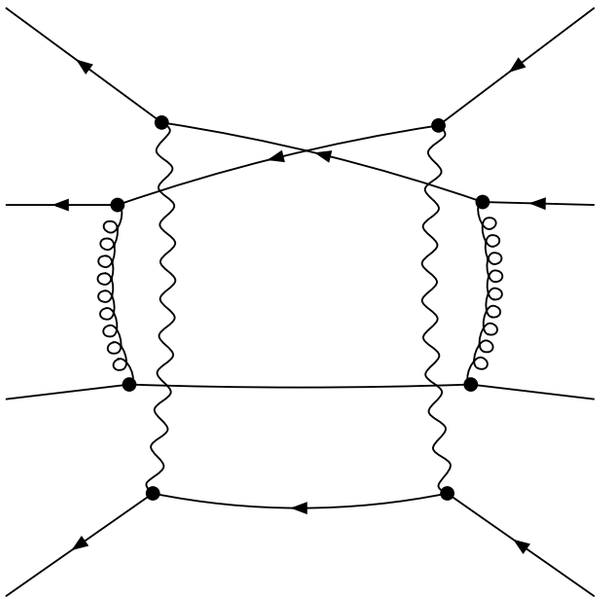


−3+9+16+18

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-q-2 k[4]]^-1 prop[0,p-q-k[3]-2 k[4]]^-1
```



−1+9+16+22

embedding 5 [1, 0, −1, −1, −1]

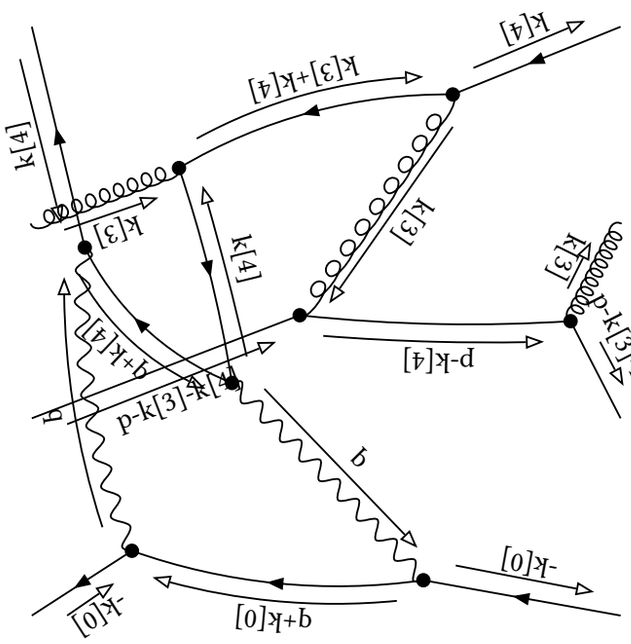
initial

Denominator:

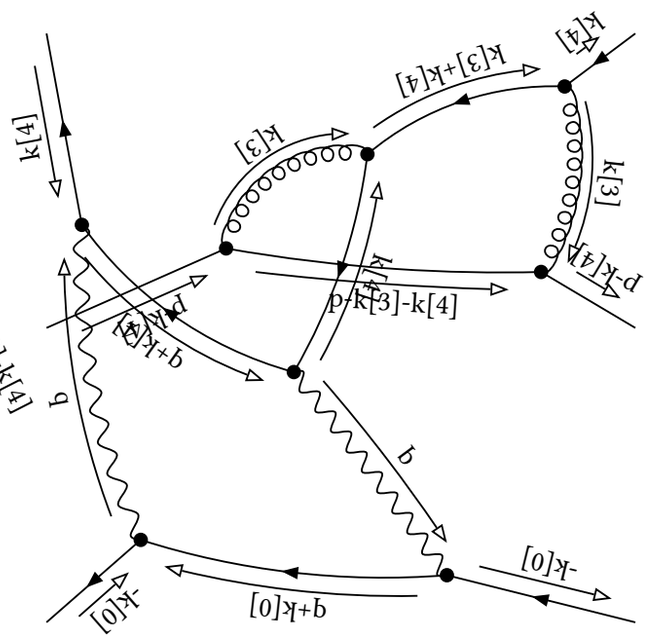
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[4]]^-1 prop[0,p-k[3]-k[4]]^-1
```

Partial Fractioned Denominator:

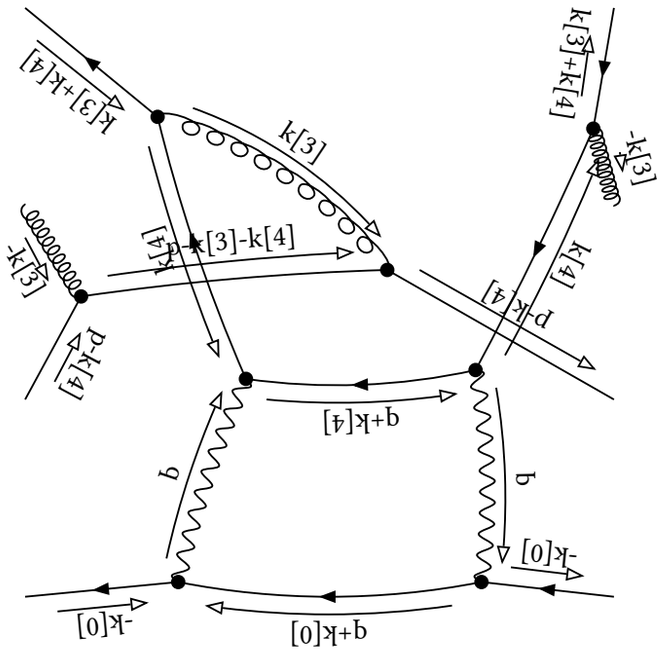
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[4]]^-1 prop[0,p-k[3]-k[4]]^-1 dot[q,q]^-2
```



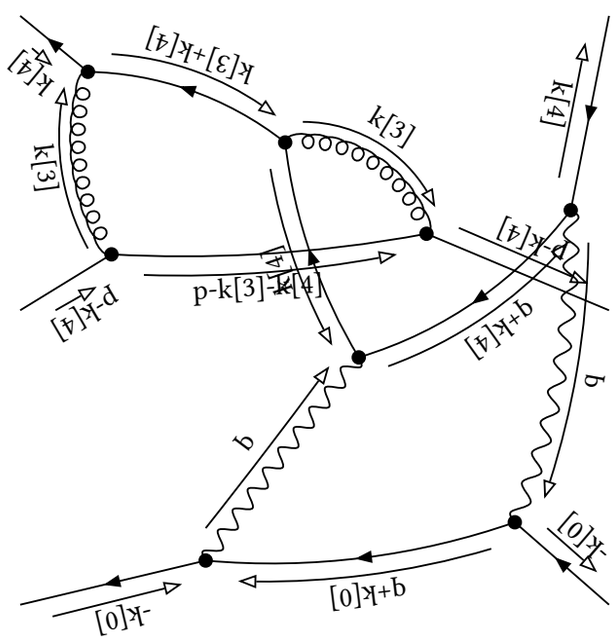
−3+9+14+20



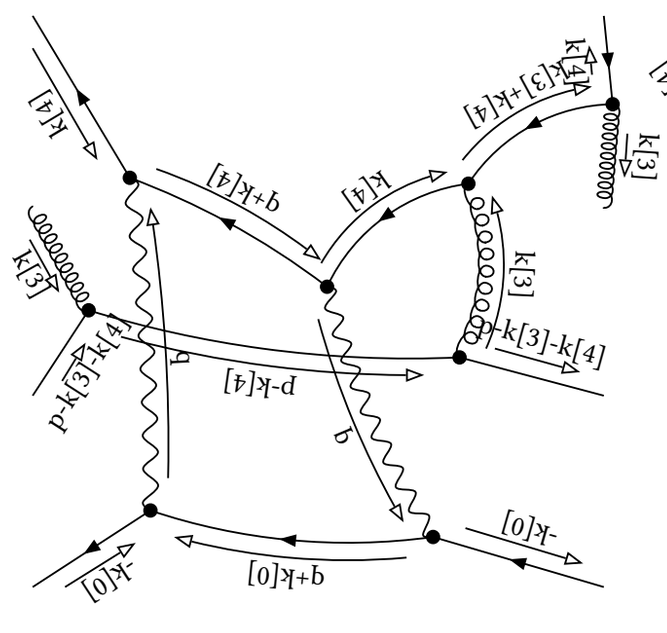
−3+10+20



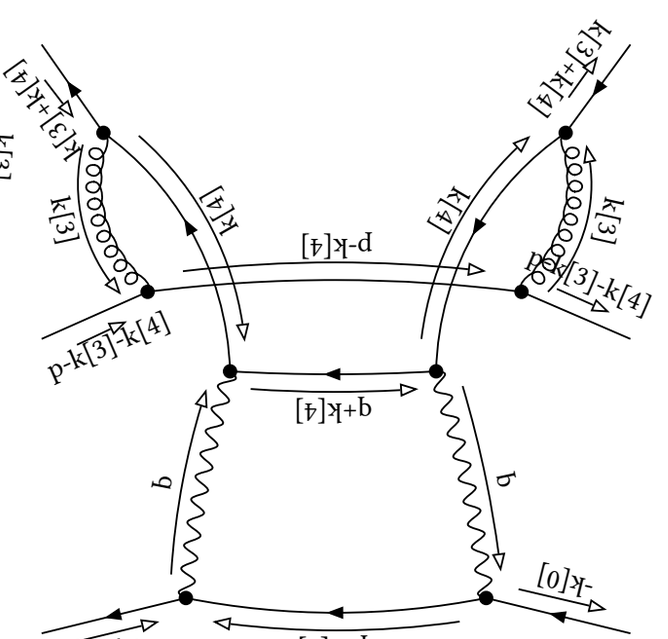
−3+10-14+16



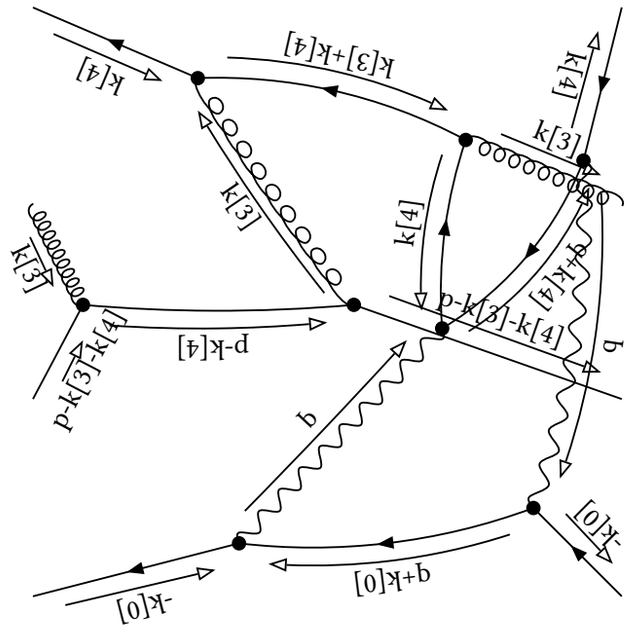
−3+10+18



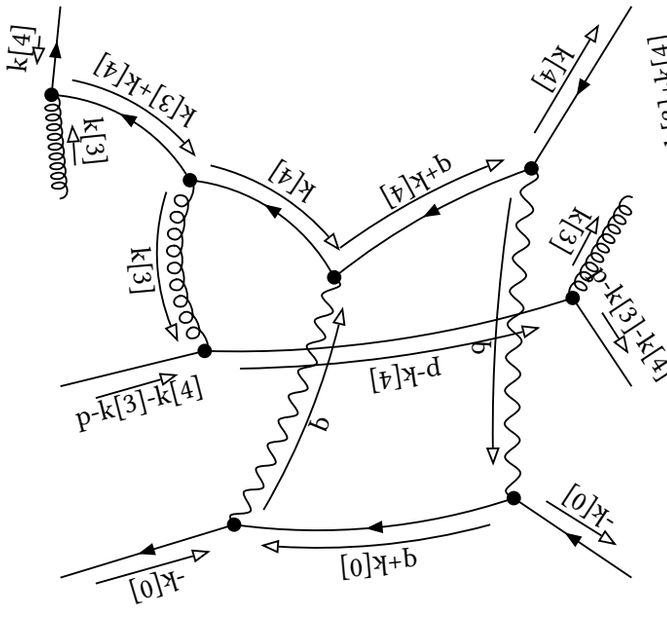
−3+9+13+20



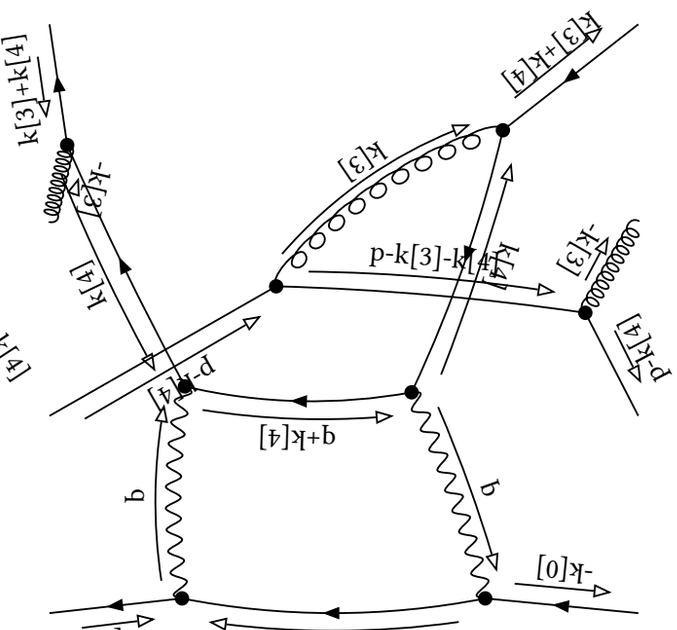
−3+9+16



−3+9+13+18



−3+9+14+18

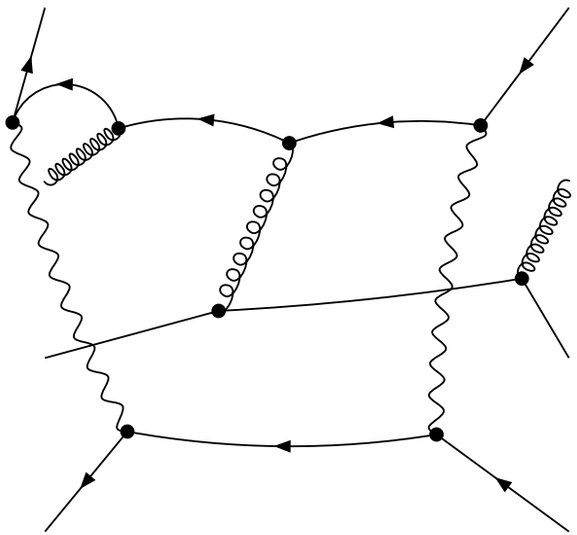


−3+10-13+16

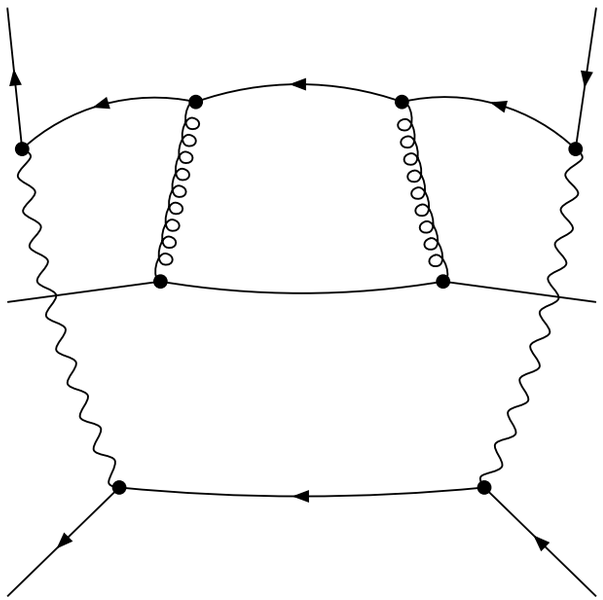
final

Denominator:

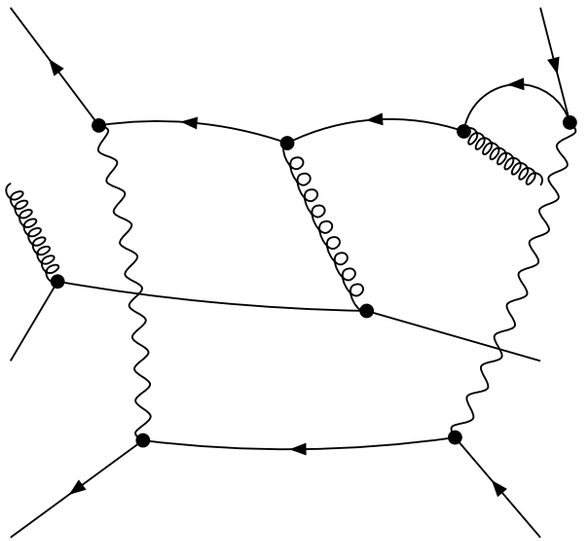
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-q-k[4]]^-1 prop[0,p-q-k[3]-k[4]]^-1
```



−1+9+14+22



−1+10+22



−1+9+13+22

embedding 6 [1, 0, −1, 0, −1]

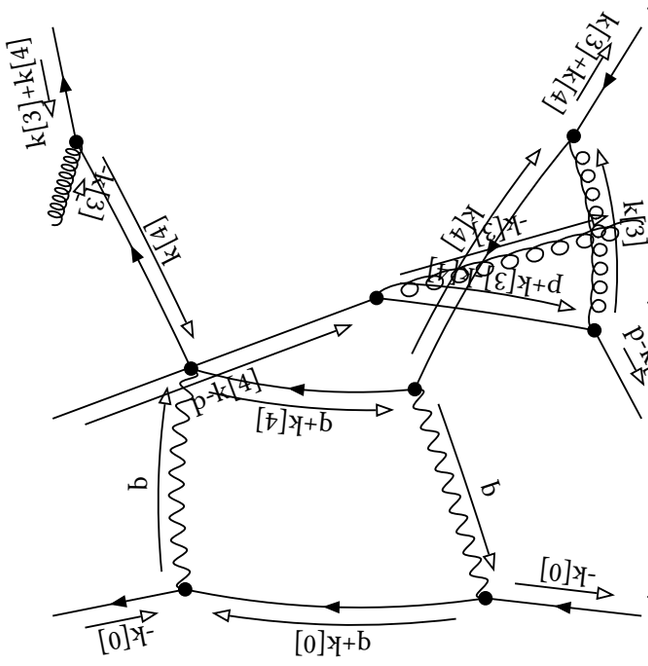
initial

Denominator:

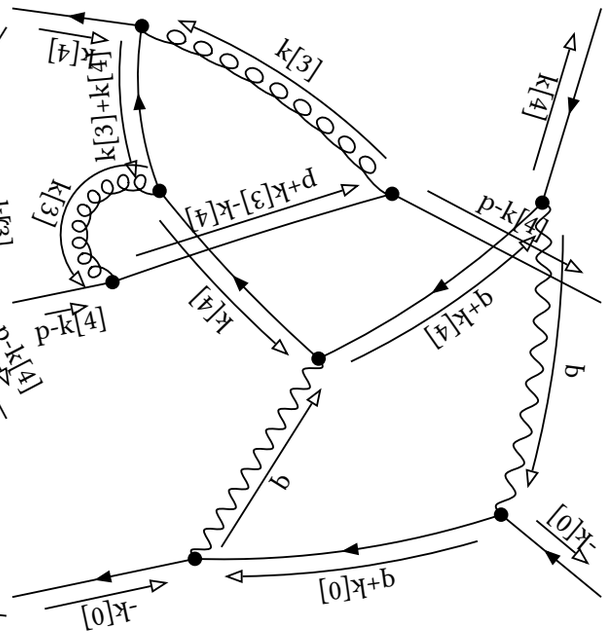
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[4]]^-1 prop[0,p+k[3]-k[4]]^-1
```

Partial Fractioned Denominator:

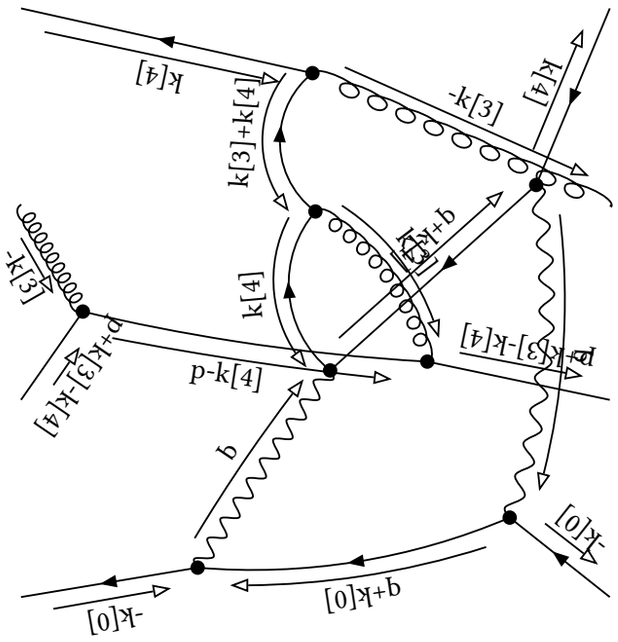
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[4]]^-1 prop[0,p+k[3]-k[4]]^-1 dot[q,q]^-2
```



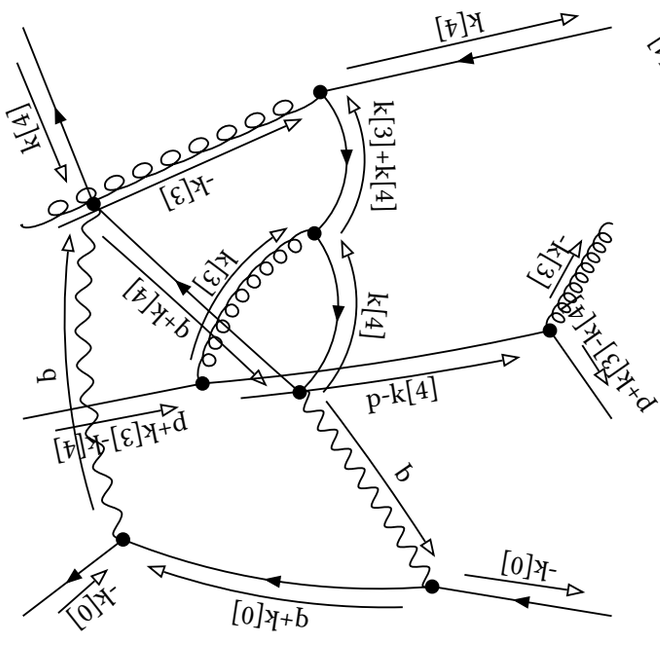
−3+9-13+16



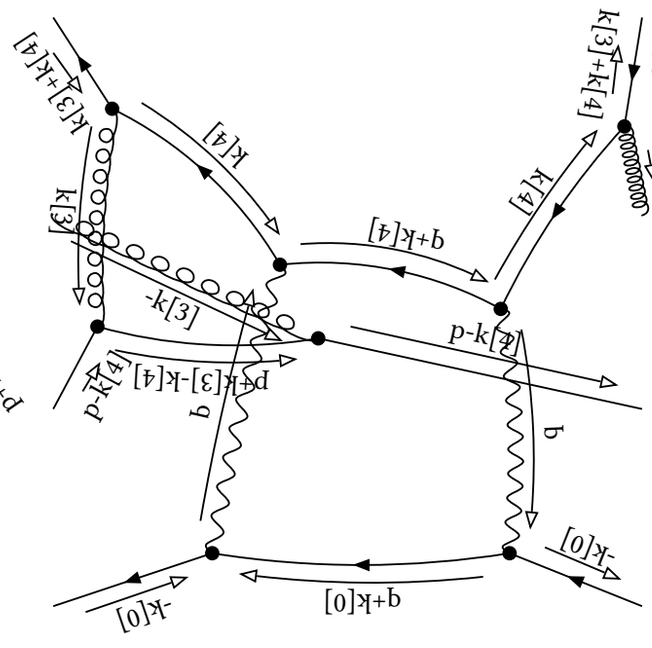
−3+9+18



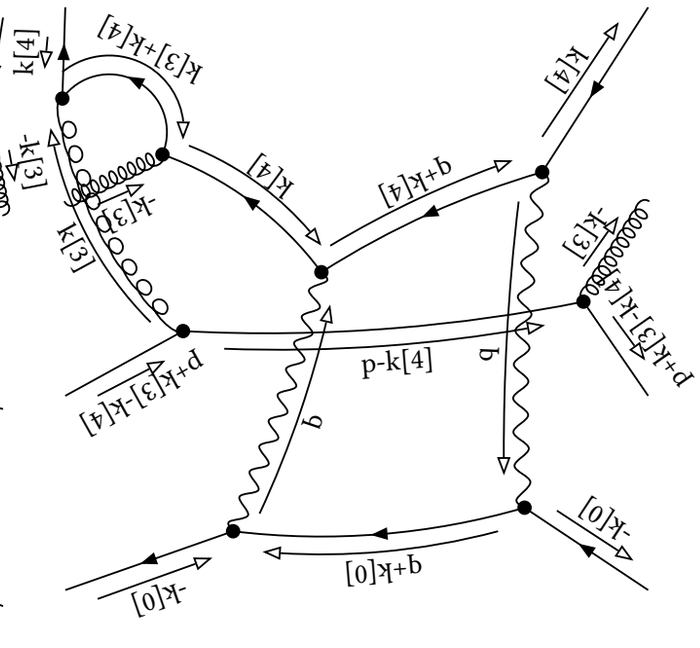
−3+10-14+18



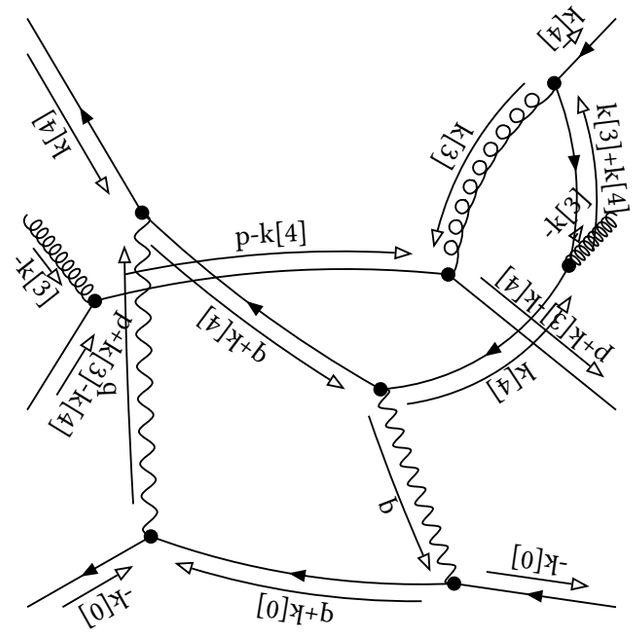
−3+10-13+20



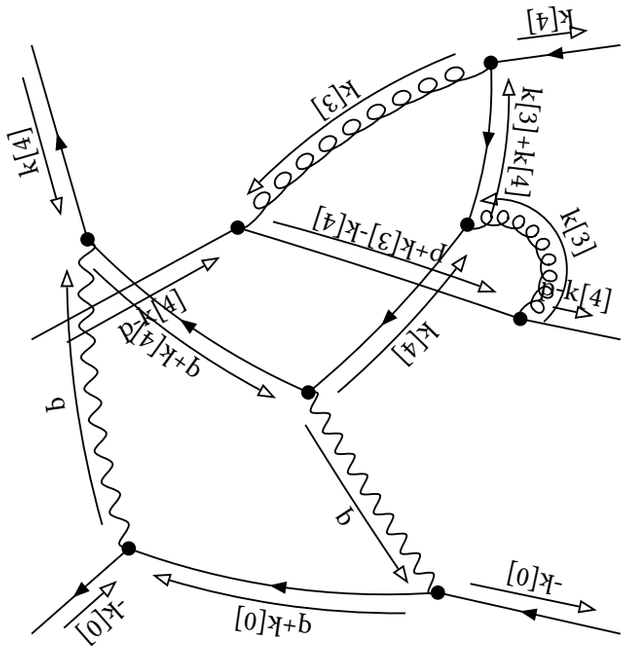
−3+9-14+16



−3+10-13+18



−3+10-14+20

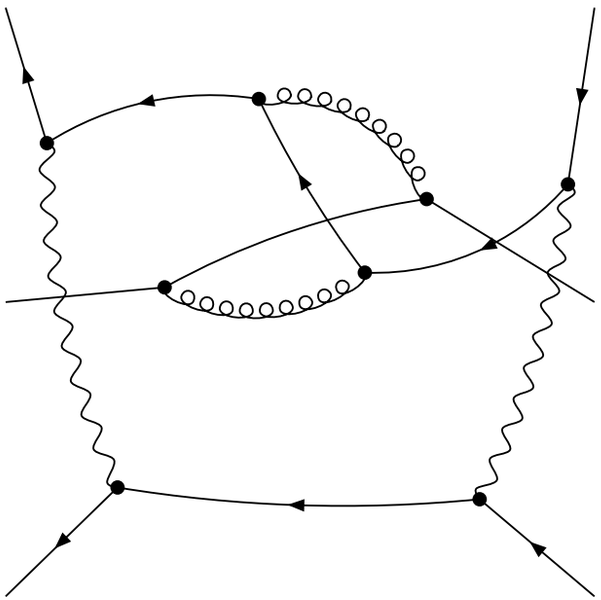


−3+9+20

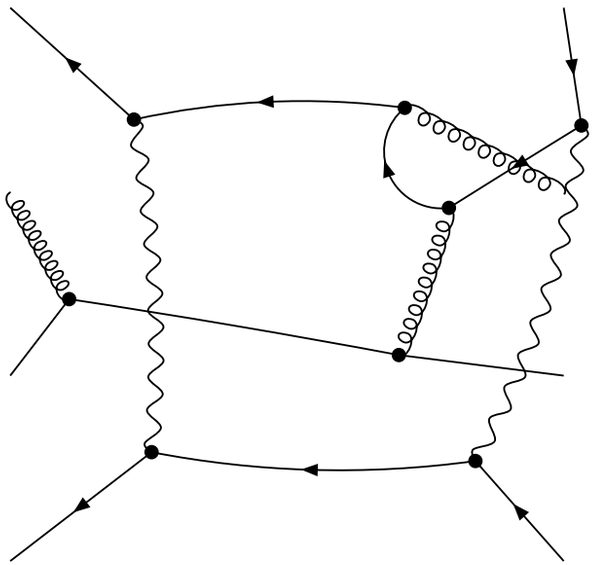
final

Denominator:

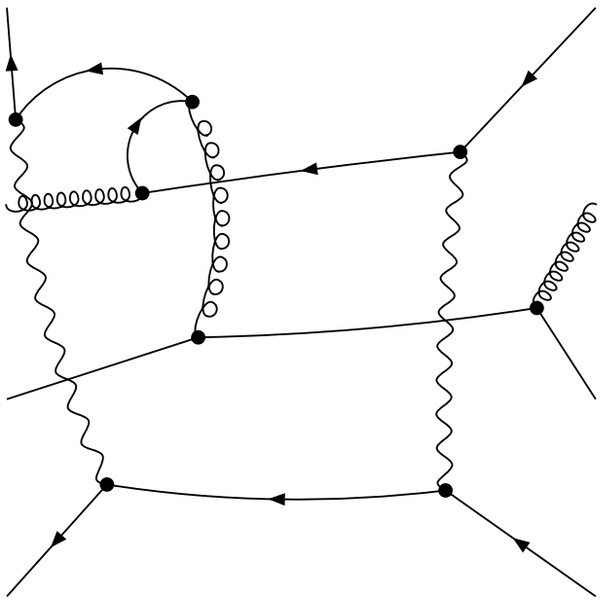
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-q-k[4]]^-1 prop[0,p-q+k[3]-k[4]]^-1
```



−1+9+22



−1+10-14+22



−1+10-13+22

embedding 7 [1, 0, −1, 0, 0]

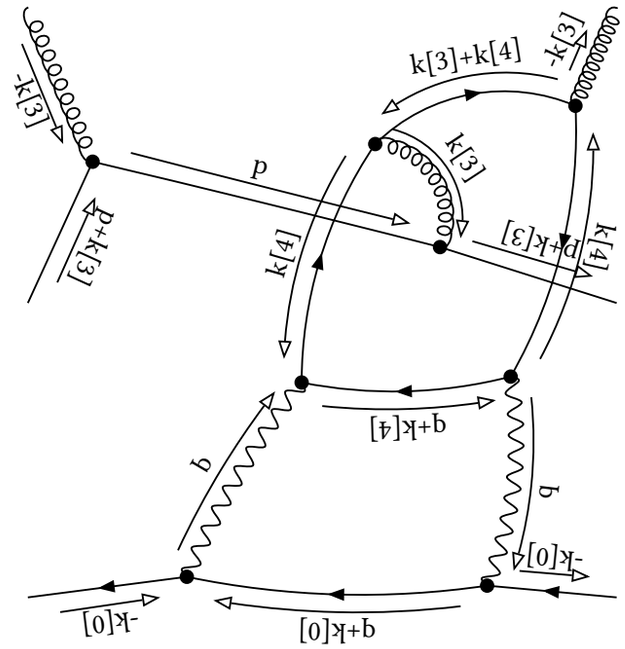
initial

Denominator:

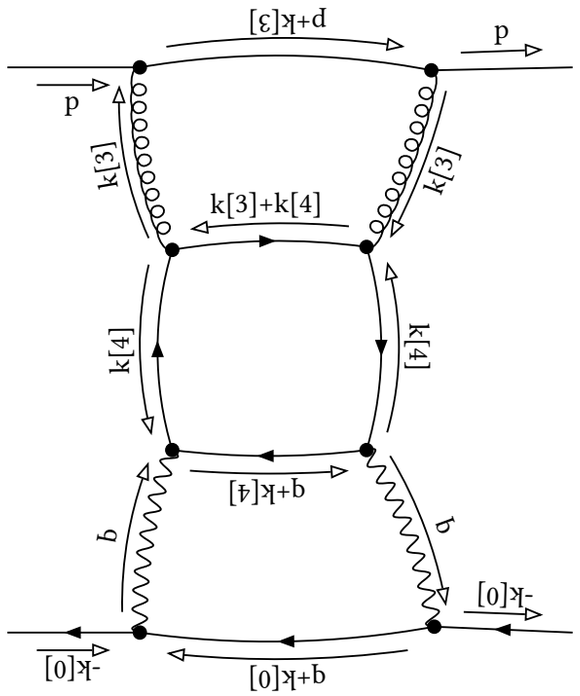
```
prop[0,p]^-1 prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+k[3]]^-1 prop[0,k[3]+k[4]]^-1
```

Partial Fractioned Denominator:

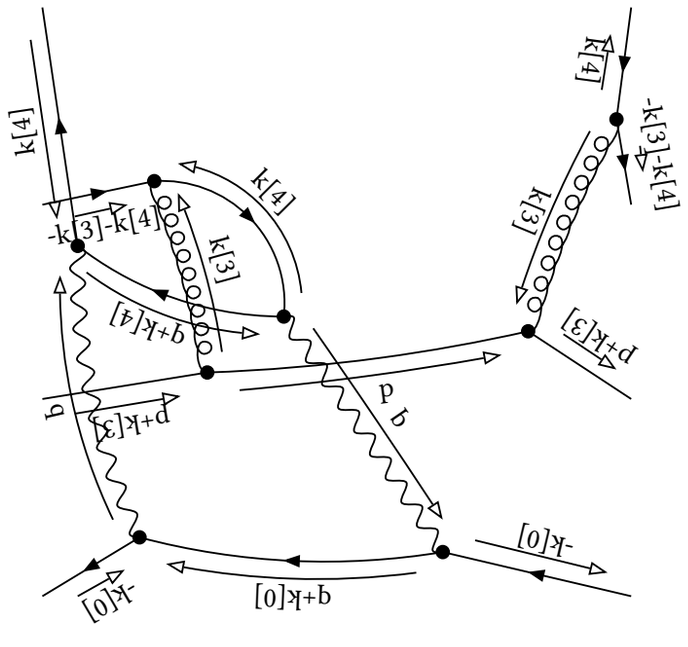
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+k[3]]^-1 prop[0,k[3]+k[4]]^-1 dot[p,p]^-1 dot[q,q]^-2
```



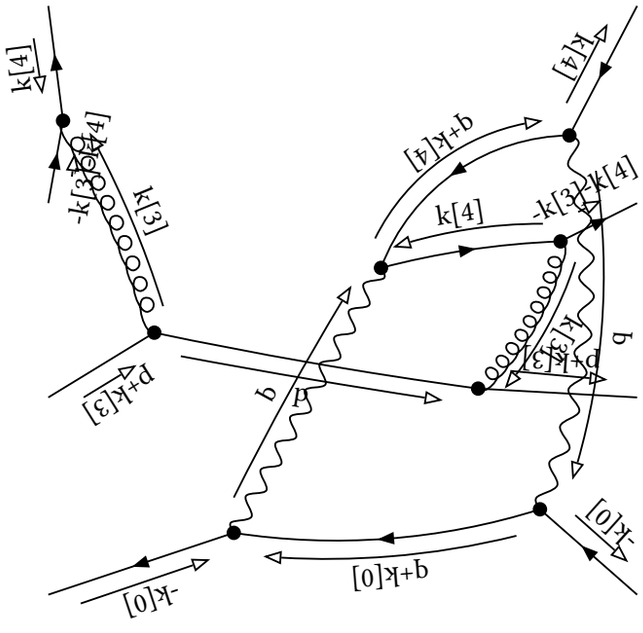
−3+10-14



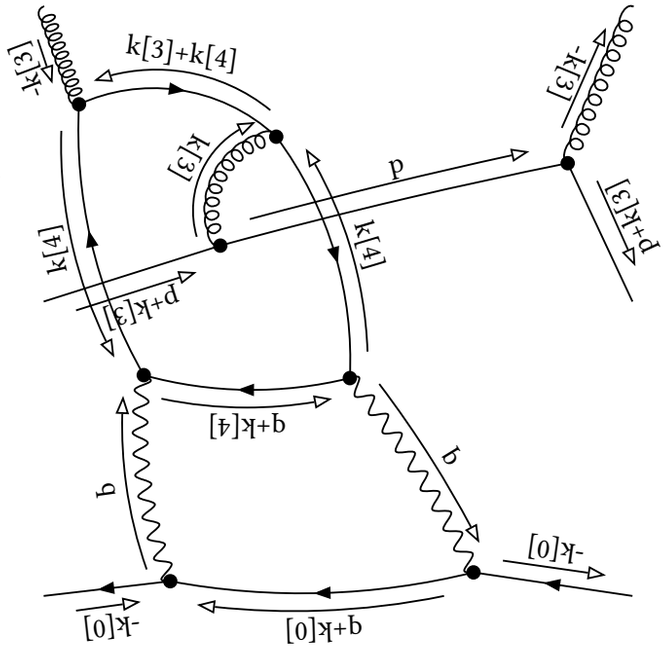
−3+9



−3+10-16+20



−3+10-16+18

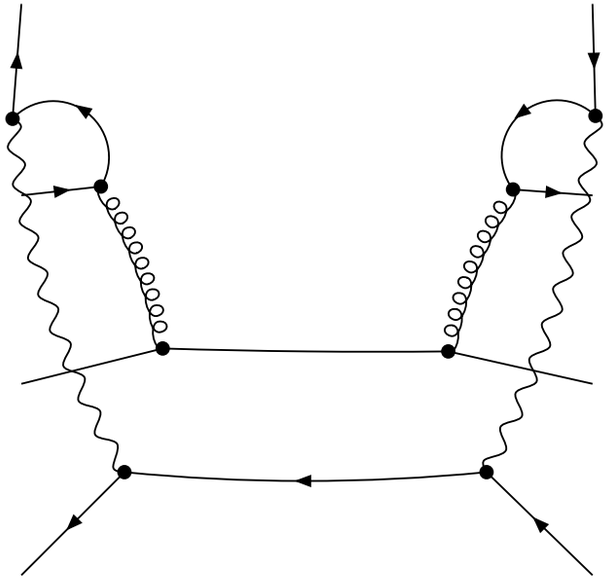


−3+10-13

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p-q]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-q+k[3]]^-1
```



−1+10-16+22

embedding 8 [1, 0, −1, 1, −1]

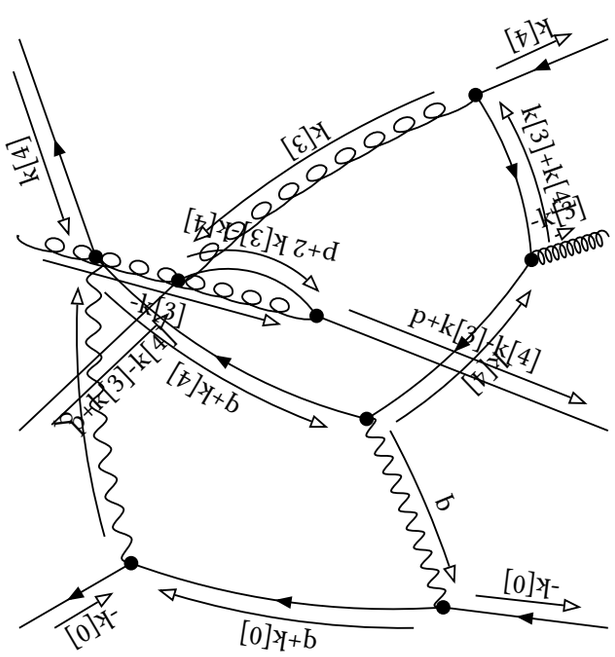
initial

Denominator:

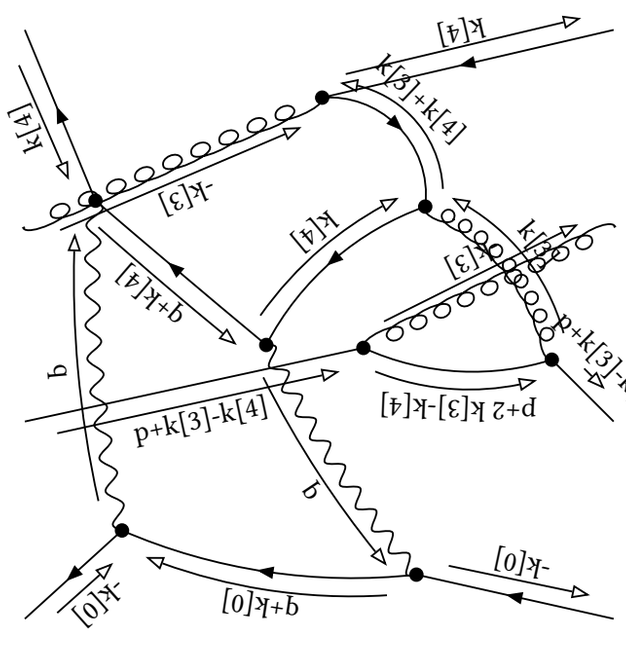
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+k[3]-k[4]]^-1 prop[0,p+2 k[3]-k[4]]^-1
```

Partial Fractioned Denominator:

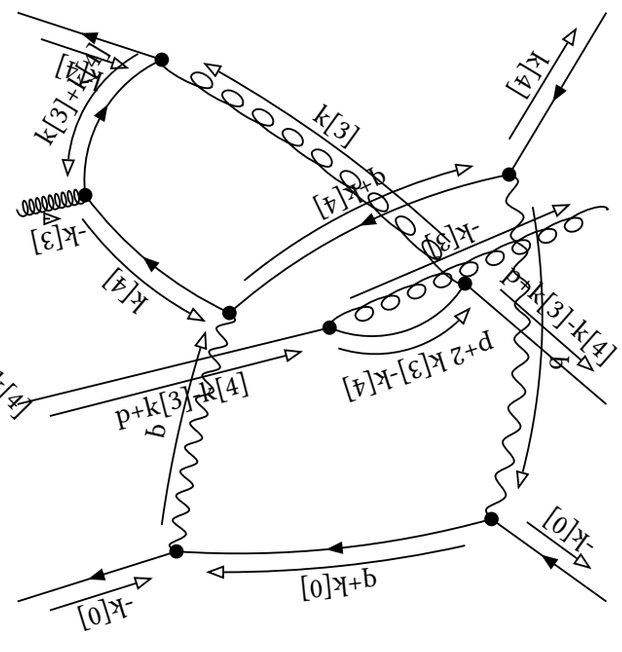
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+k[3]-k[4]]^-1 prop[0,p+2 k[3]-k[4]]^-1 dot[q,q]^-2
```



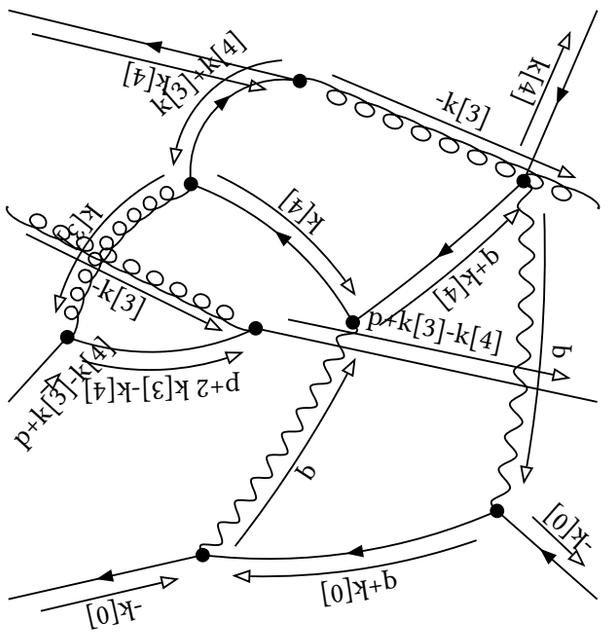
−3+9-14+20



−3+9-13+20



−3+9-13+18

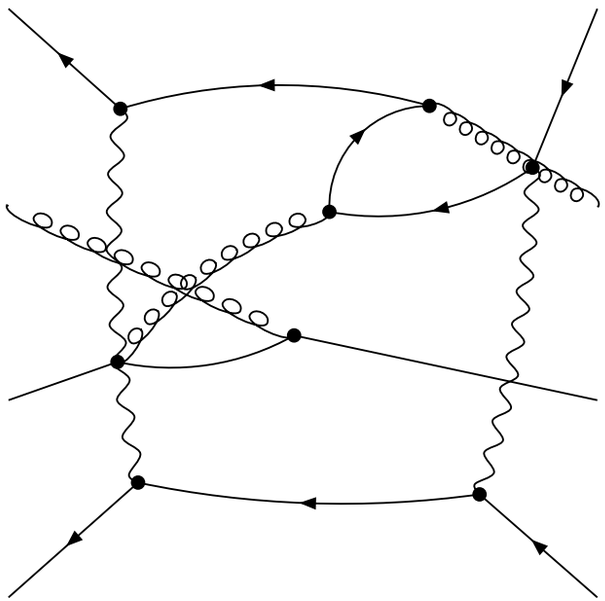


−3+9-14+18

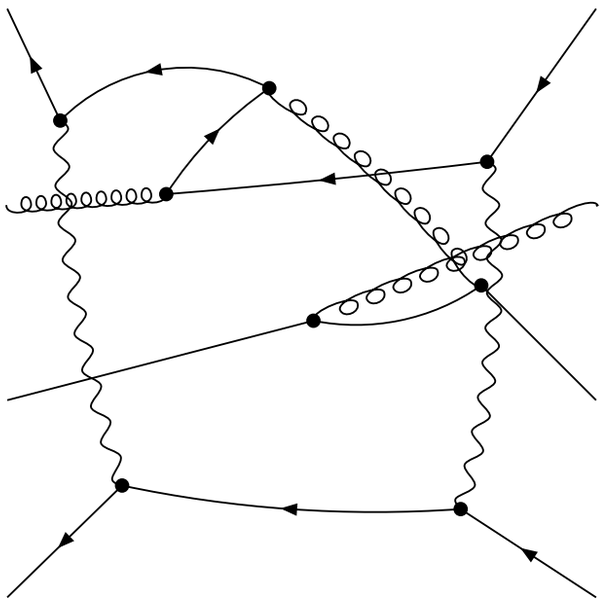
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-q+k[3]-k[4]]^-1 prop[0,p-q+2 k[3]-k[4]]^-1
```



−1+9-14+22



−1+9-13+22

embedding 9 [1, 0, −1, 1, 0]

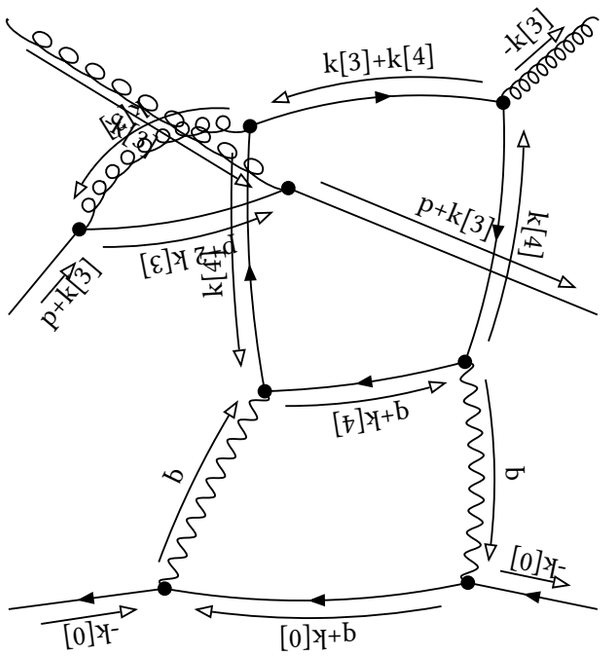
initial

Denominator:

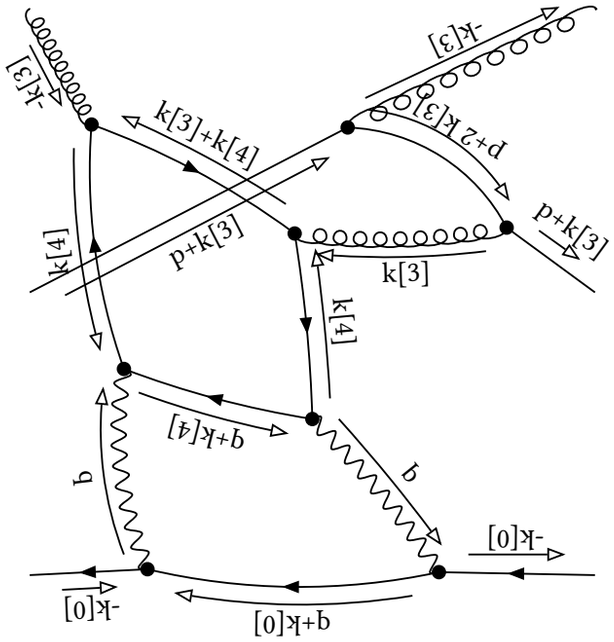
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+k[3]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+2 k[3]]^-1
```

Partial Fractioned Denominator:

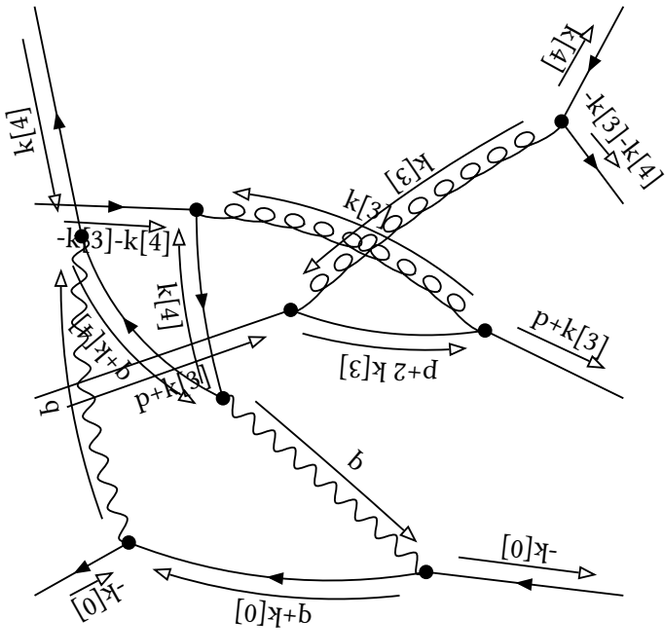
```
-prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+k[3]]^-1 prop[0,k[3]+k[4]]^-1 dot[p,p]^-1 dot[q,q]^-2
  +2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+2 k[3]]^-1 dot[p,p]^-1 dot[q,q]^-2
  -2 prop[0,k[3]]^-1 prop[0,k[4]]^-1 prop[0,p+k[3]]^-1 prop[0,k[3]+k[4]]^-1 dot[p,p]^-2 dot[q,q]^-2
  +4 prop[0,k[3]]^-1 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+2 k[3]]^-1 dot[p,p]^-2 dot[q,q]^-2
  +4 prop[0,k[4]]^-1 prop[0,p+k[3]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+2 k[3]]^-1 dot[p,p]^-2 dot[q,q]^-2
```



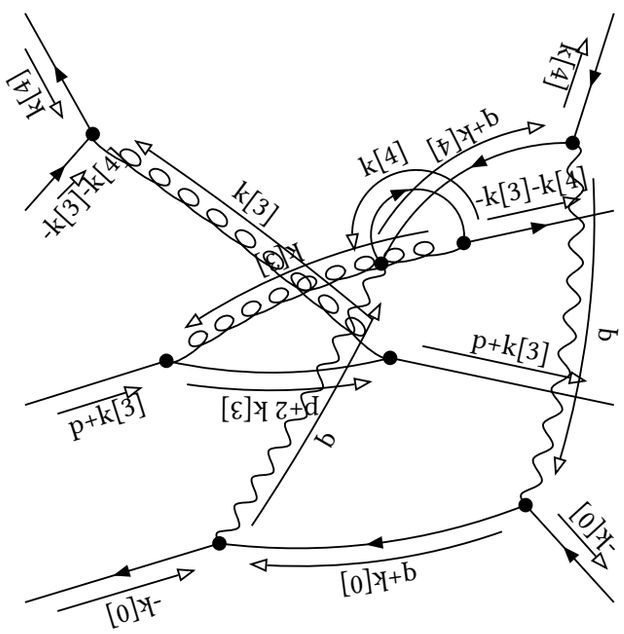
−3+9-14



−3+9-13



−3+9-16+20

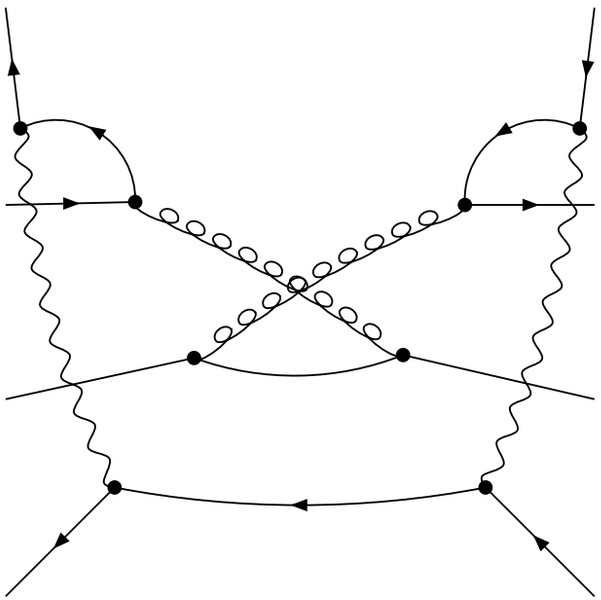


−3+9-16+18

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-q+k[3]]^-1 prop[0,p-q+2 k[3]]^-1
```



−1+9-16+22

embedding 10 [1, 0, 0, −1, −2]

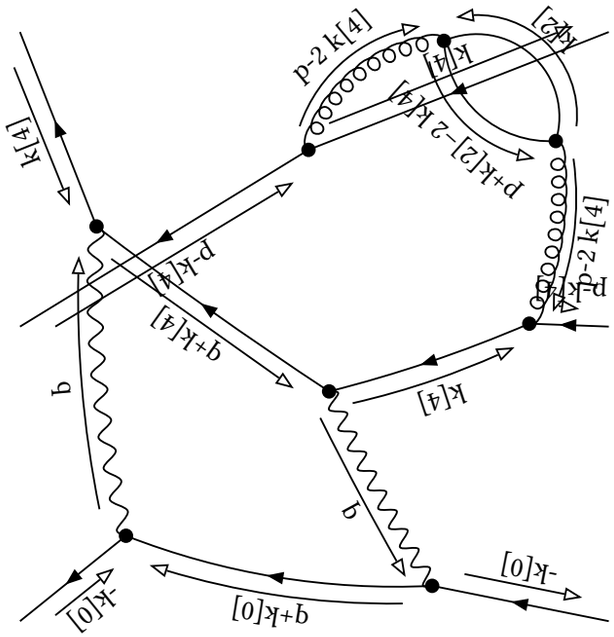
initial

Denominator:

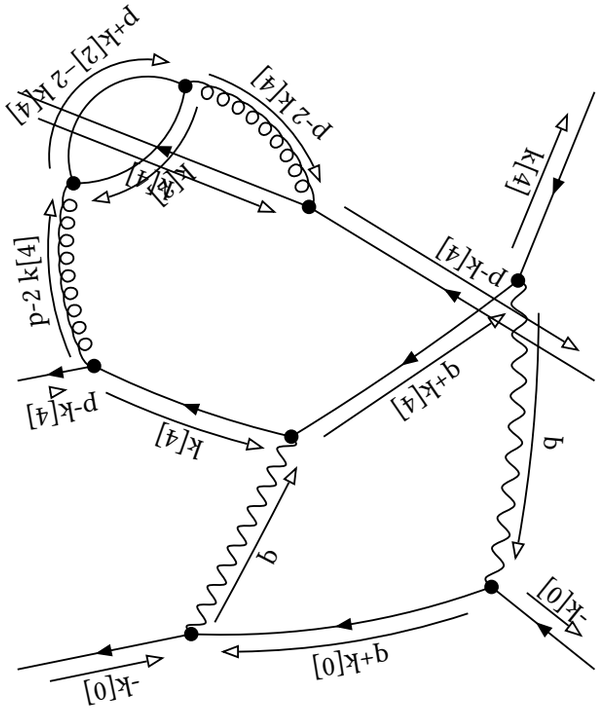
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p-k[4]]^-1 prop[0,p-2 k[4]]^-2 prop[0,p+k[2]-2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p-k[4]]^-1 prop[0,p+k[2]-2 k[4]]^-1 dot[p,p]^-2 dot[q,q]^-2
  +2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p-2 k[4]]^-2 prop[0,p+k[2]-2 k[4]]^-1 dot[p,p]^-1 dot[q,q]^-2
  -2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p-2 k[4]]^-1 prop[0,p+k[2]-2 k[4]]^-1 dot[p,p]^-2 dot[q,q]^-2
  +2 prop[0,k[2]]^-1 prop[0,p-k[4]]^-1 prop[0,p-2 k[4]]^-2 prop[0,p+k[2]-2 k[4]]^-1 dot[p,p]^-1 dot[q,q]^-2
  -2 prop[0,k[2]]^-1 prop[0,p-k[4]]^-1 prop[0,p-2 k[4]]^-1 prop[0,p+k[2]-2 k[4]]^-1 dot[p,p]^-2 dot[q,q]^-2
```



−3+16+20

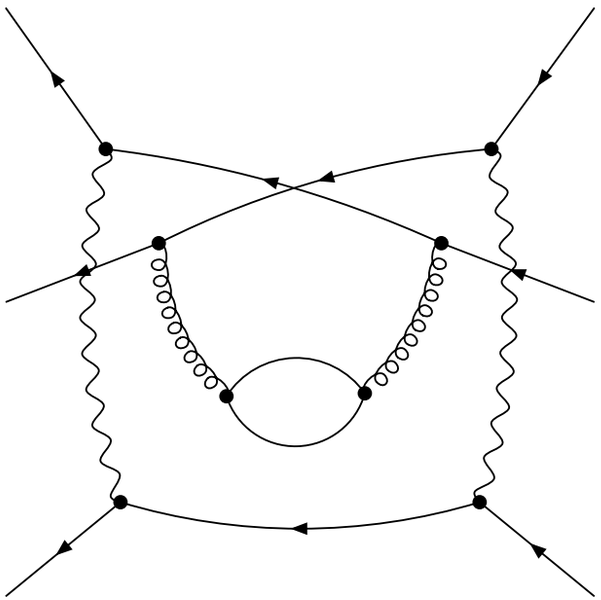


−3+16+18

final

Denominator:

```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p-q-k[4]]^-1 prop[0,p-q-2 k[4]]^-2 prop[0,p-q+k[2]-2 k[4]]^-1
```



−1+16+22

embedding 11 [1, 0, 0, −1, −1]

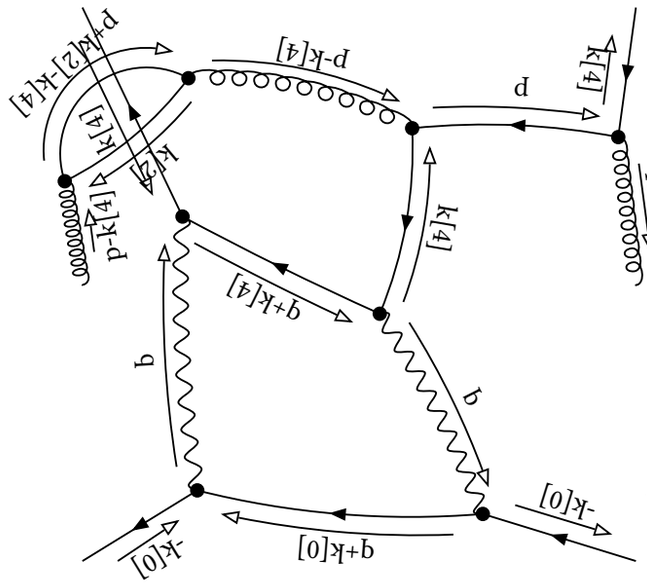
initial

Denominator:

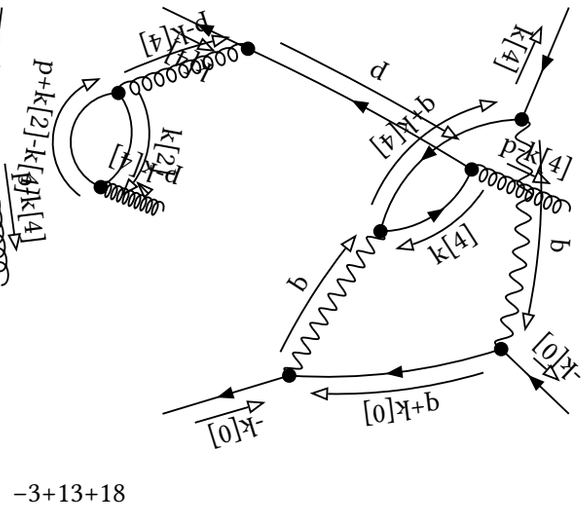
```
prop[0,p]^-1 prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p-k[4]]^-2 prop[0,p+k[2]-k[4]]^-1
```

Partial Fractioned Denominator:

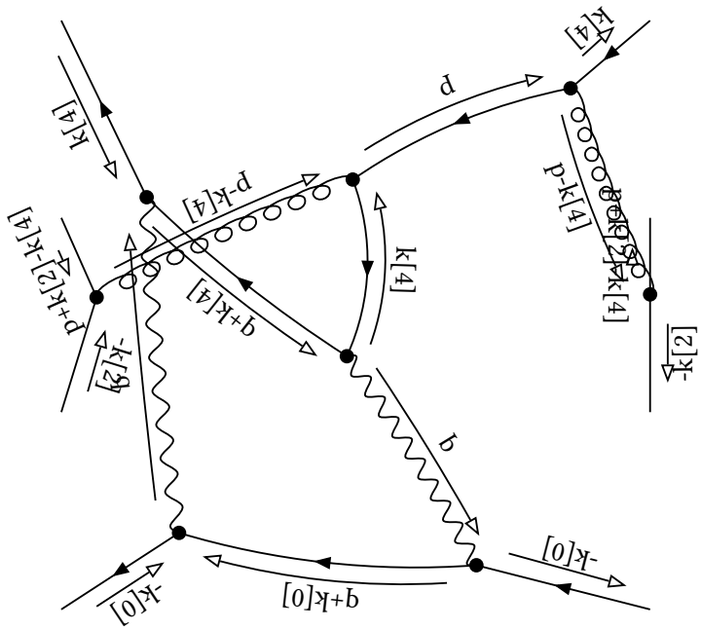
```
prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p-k[4]]^-2 prop[0,p+k[2]-k[4]]^-1 dot[p,p]^-1 dot[q,q]^-2
```



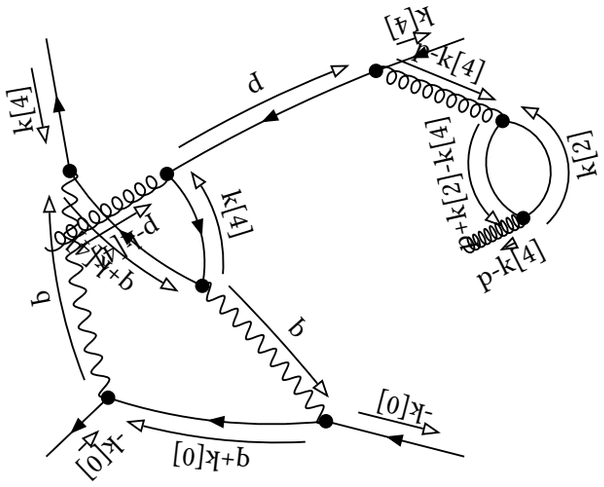
−3+13+20



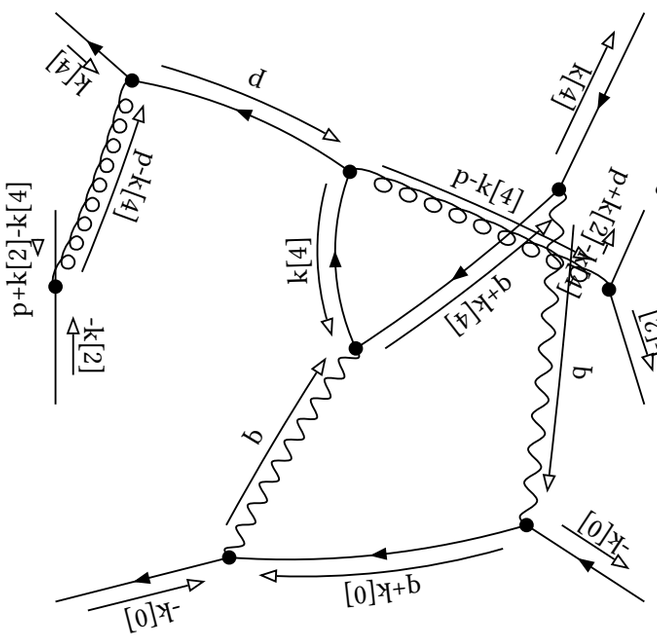
−3+13+18



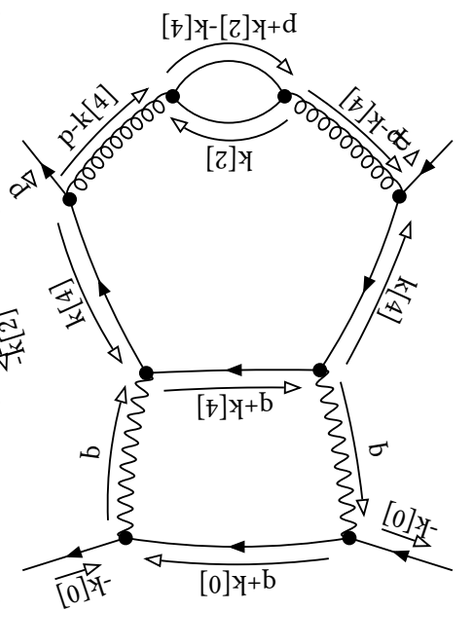
−3-9+10+20



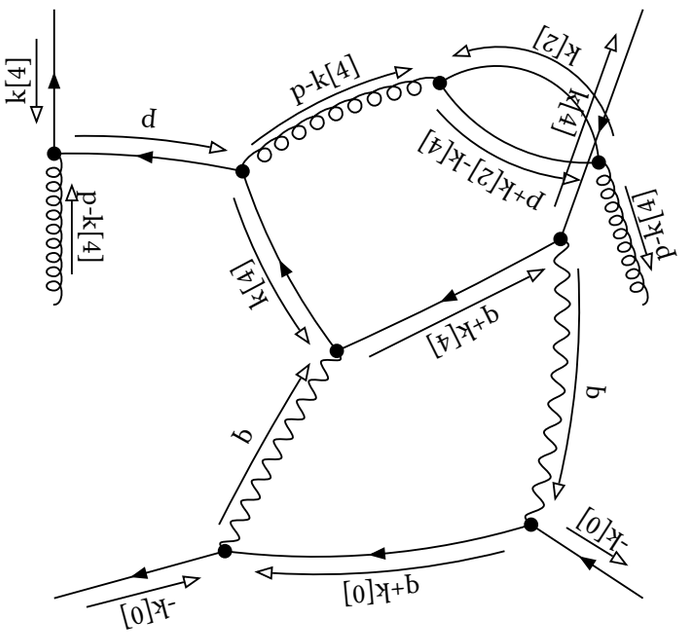
−3+14+20



−3-9+10+18



−3+16

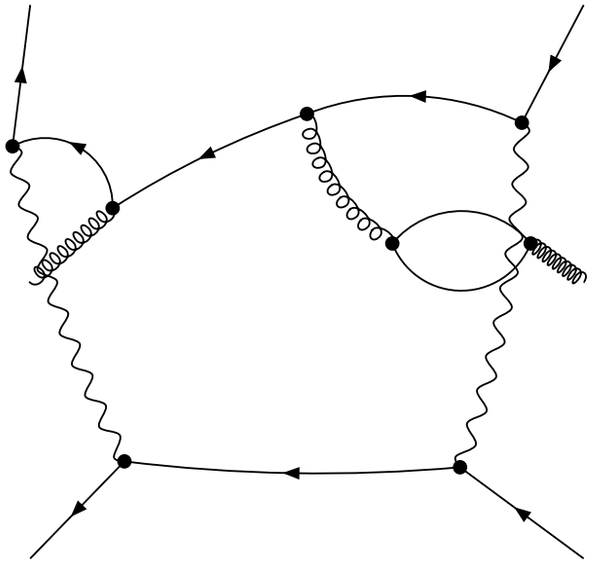


−3+14+18

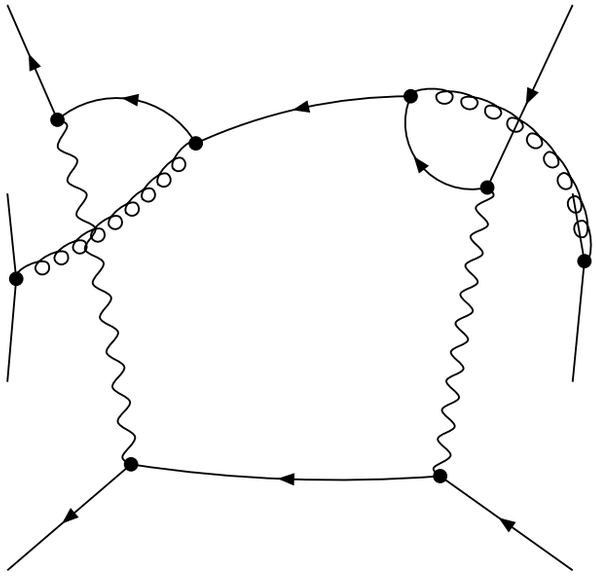
final

Denominator:

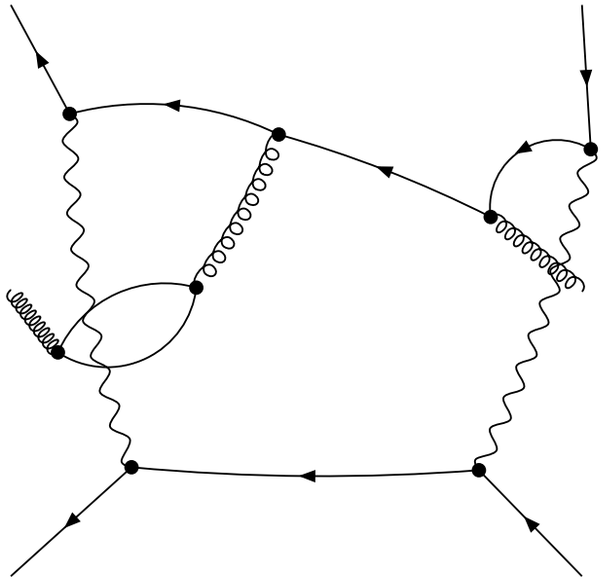
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p-q]^-1 prop[0,p-q-k[4]]^-2 prop[0,p-q+k[2]-k[4]]^-1
```



−1+14+22



−1-9+10+22



−1+13+22

embedding 12 [1, 0, 0, 0, −1]

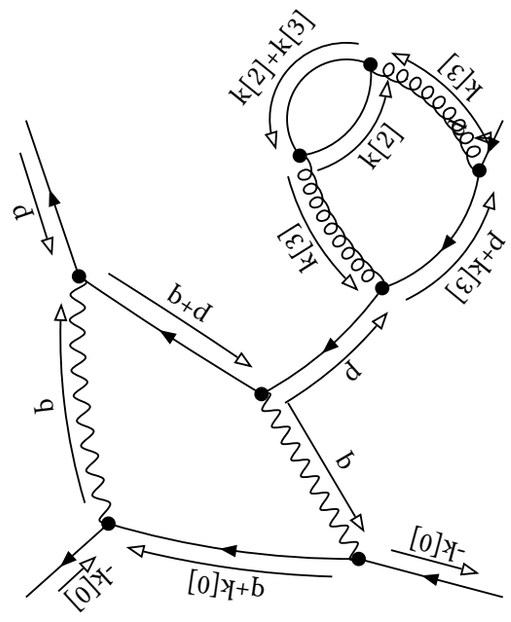
initial

Denominator:

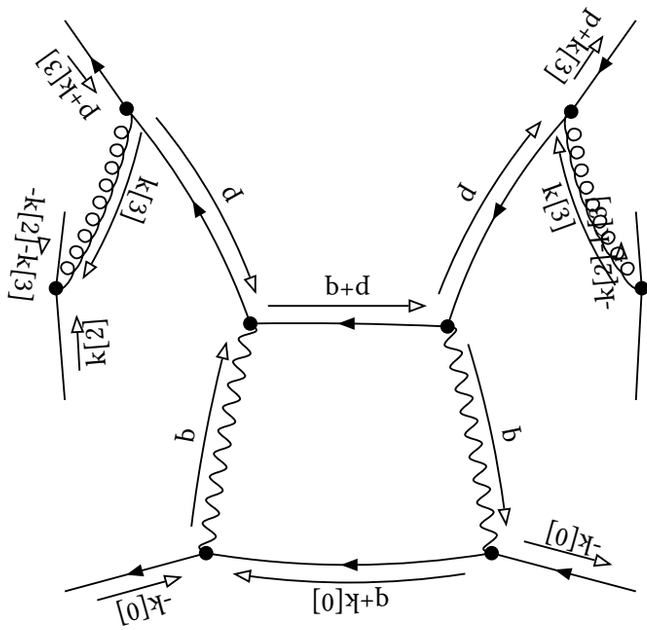
```
prop[0,p]^-1 prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[3]]^-2 prop[0,p+k[3]]^-1 prop[0,k[2]+k[3]]^-1
```

Partial Fractioned Denominator:

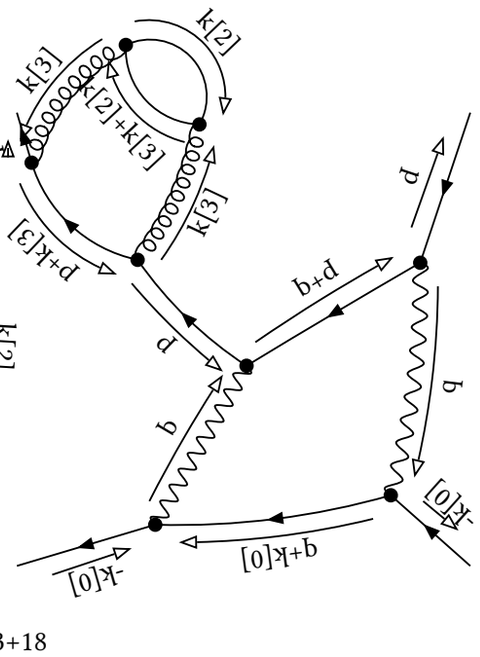
```
prop[0,k[2]]^-1 prop[0,k[3]]^-2 prop[0,p+k[3]]^-1 prop[0,k[2]+k[3]]^-1 dot[p,p]^-1 dot[q,q]^-2
```



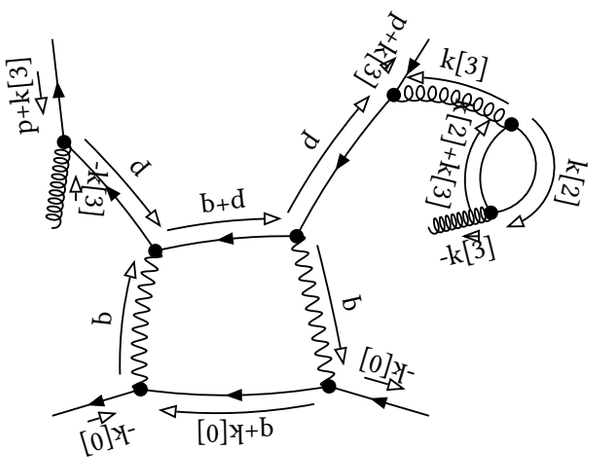
−3+20



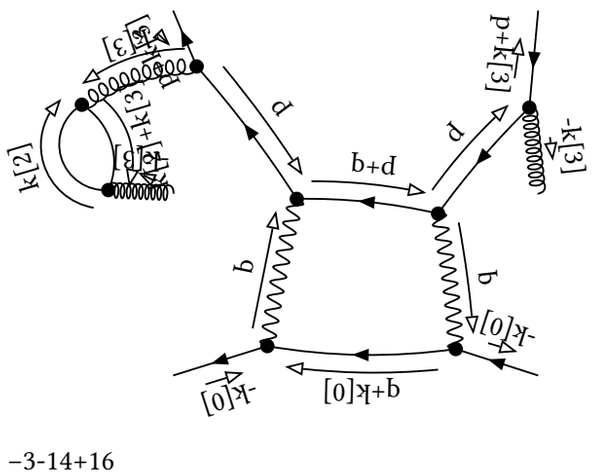
−3+9-10+16



−3+18



−3-13+16

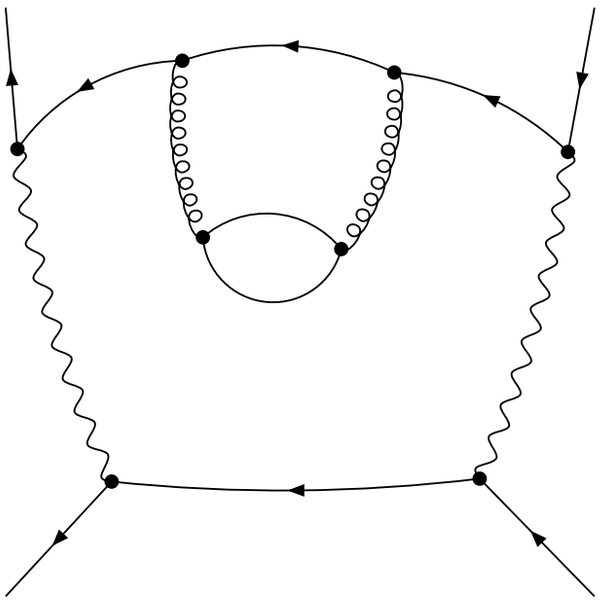


−3-14+16

final

Denominator:

```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[3]]^-2 prop[0,p-q]^-1 prop[0,k[2]+k[3]]^-1 prop[0,p-q+k[3]]^-1
```



−1+22

embedding 13 [1, 0, 0, 1, −1]

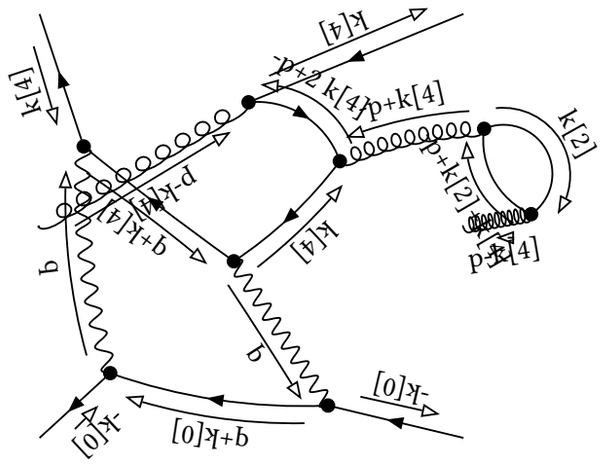
initial

Denominator:

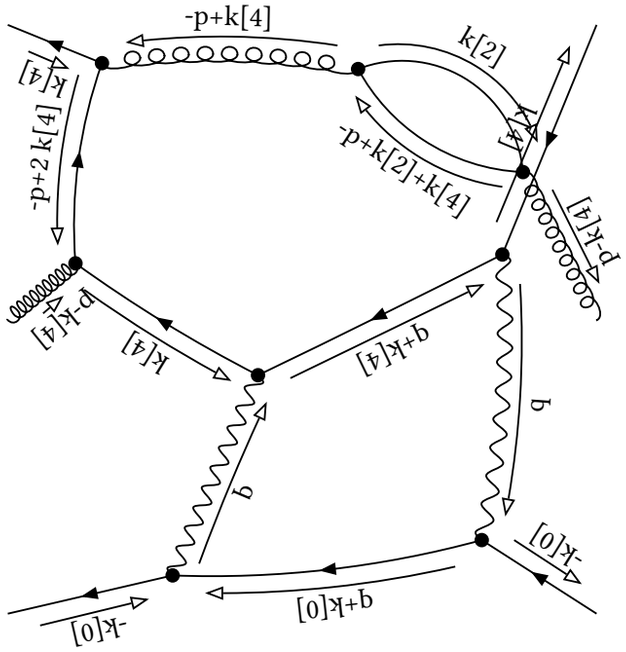
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p+k[4]]^-2 prop[0,-p+2 k[4]]^-1 prop[0,-p+k[2]+k[4]]^-1
```

Partial Fractioned Denominator:

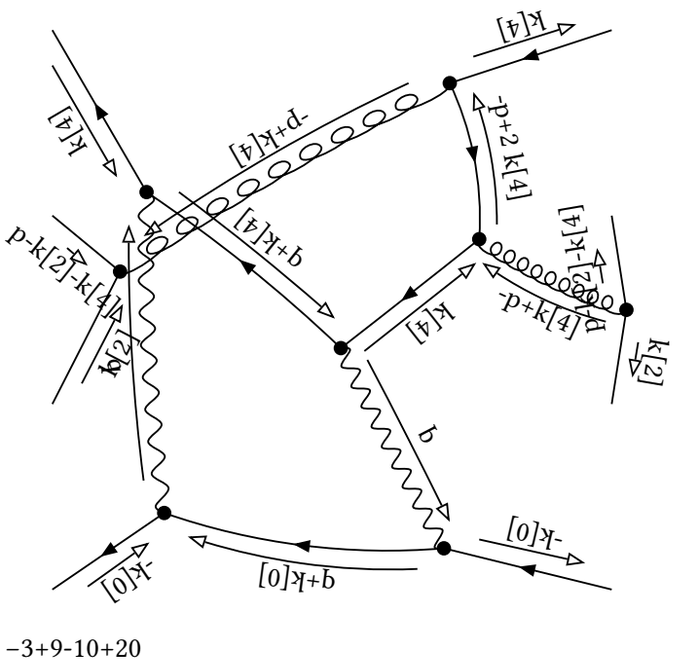
```
-prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p+k[4]]^-2 prop[0,-p+k[2]+k[4]]^-1 dot[p,p]^-1 dot[q,q]^-2
  -2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p+k[4]]^-1 prop[0,-p+k[2]+k[4]]^-1 dot[p,p]^-2 dot[q,q]^-2
  +4 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p+2 k[4]]^-1 prop[0,-p+k[2]+k[4]]^-1 dot[p,p]^-2 dot[q,q]^-2
  +2 prop[0,k[2]]^-1 prop[0,-p+k[4]]^-2 prop[0,-p+2 k[4]]^-1 prop[0,-p+k[2]+k[4]]^-1 dot[p,p]^-1 dot[q,q]^-2
  +4 prop[0,k[2]]^-1 prop[0,-p+k[4]]^-1 prop[0,-p+2 k[4]]^-1 prop[0,-p+k[2]+k[4]]^-1 dot[p,p]^-2 dot[q,q]^-2
```



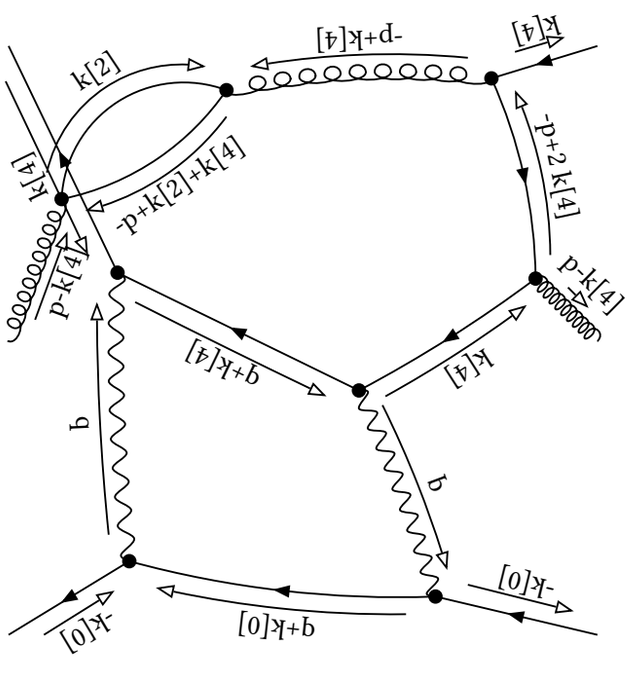
−3-13+20



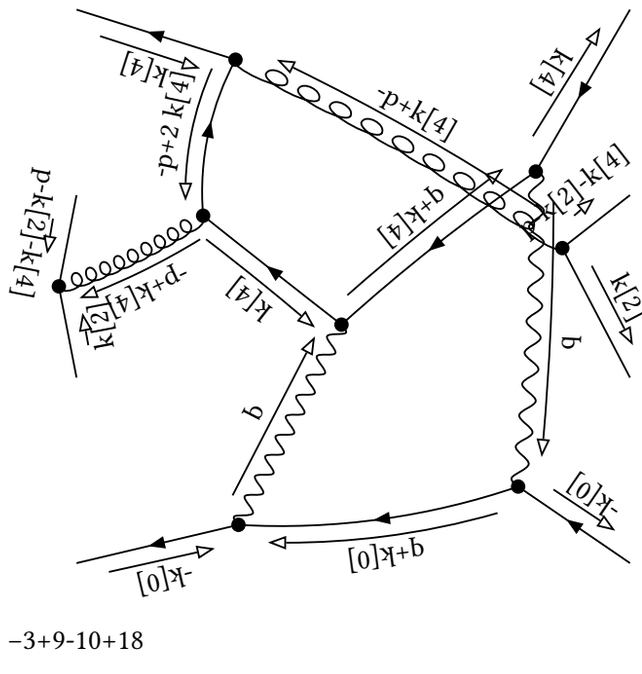
−3-13+18



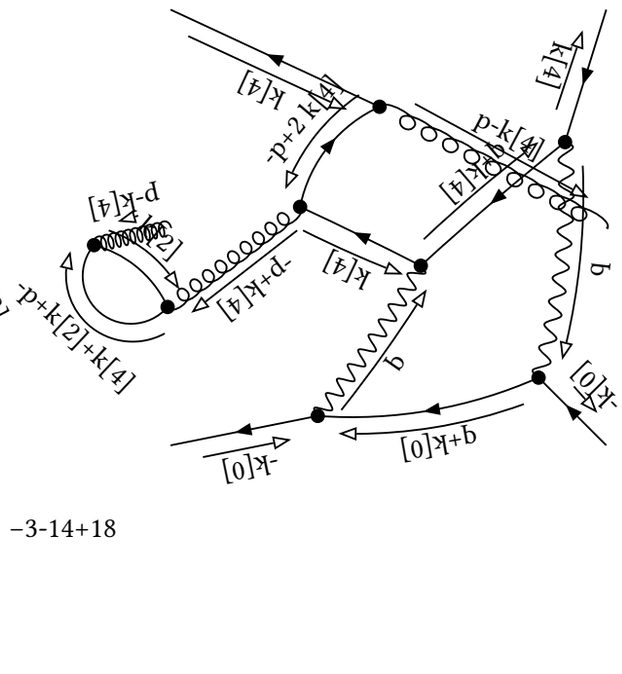
−3+9-10+20



−3-14+20



−3+9-10+18

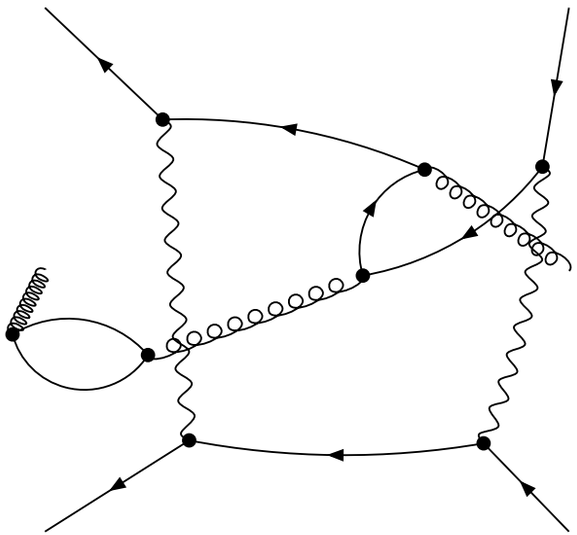


−3-14+18

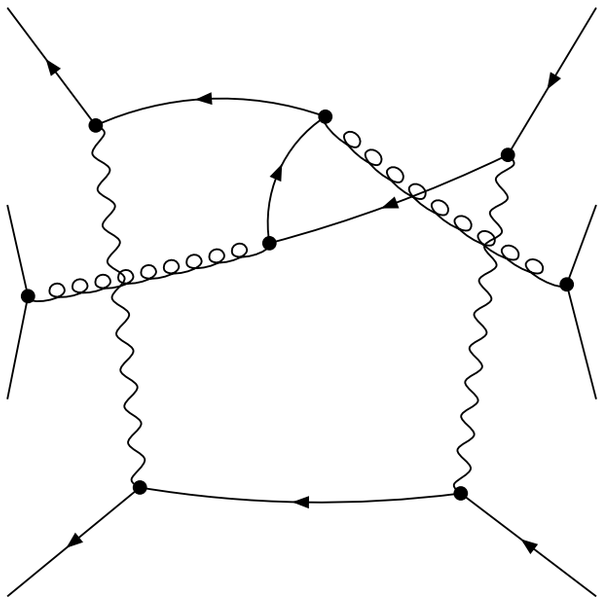
final

Denominator:

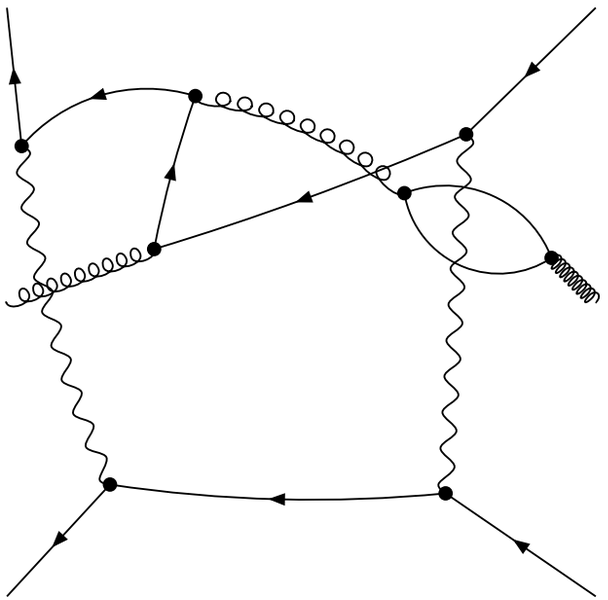
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p+q+k[4]]^-2 prop[0,-p+q+2 k[4]]^-1 prop[0,-p+q+k[2]+k[4]]^-1
```



−1-14+22



−1+9-10+22



−1-13+22

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

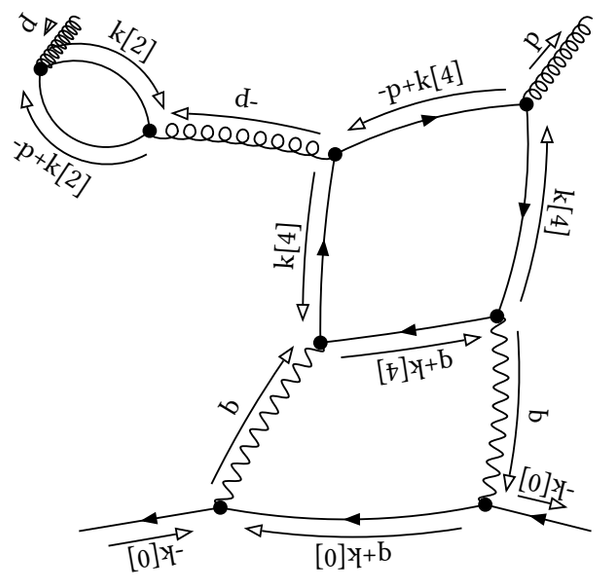
initial

Denominator:

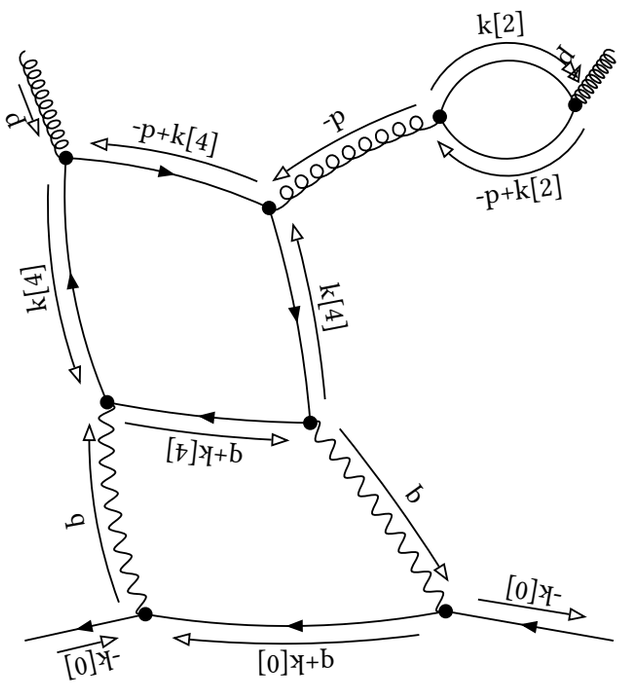
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p]^-2 prop[0,-p+k[2]]^-1 prop[0,-p+k[4]]^-1
```

Partial Fractioned Denominator:

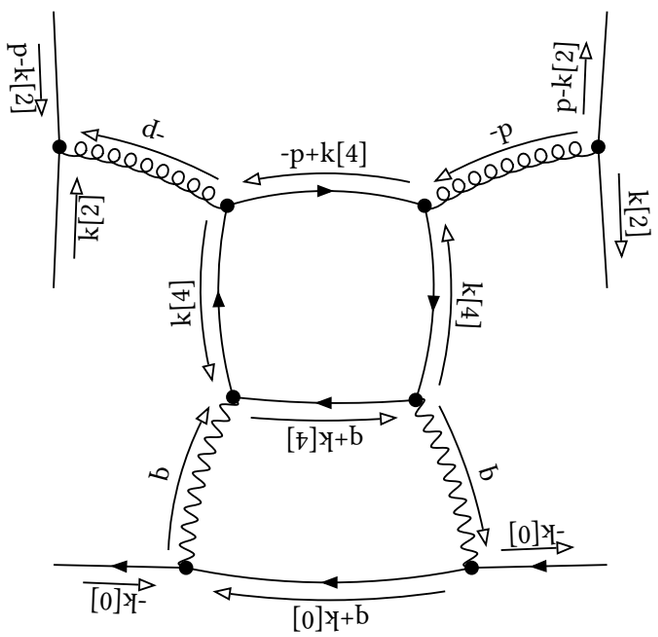
```
prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p+k[2]]^-1 prop[0,-p+k[4]]^-1 dot[p,p]^-2 dot[q,q]^-2
```



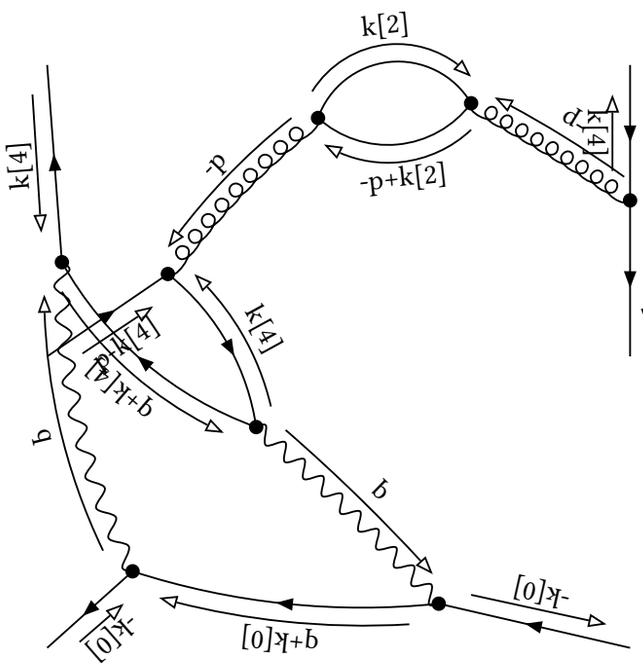
−3-14



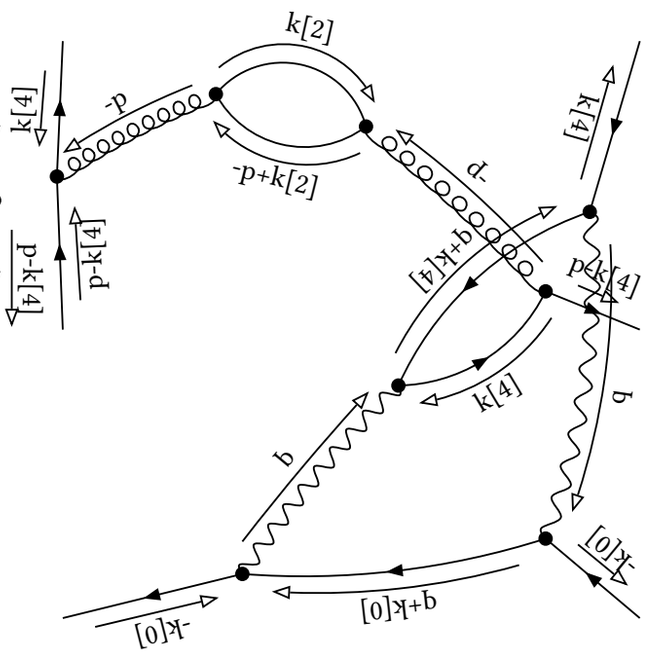
−3-13



−3-9-10



−3-16+20

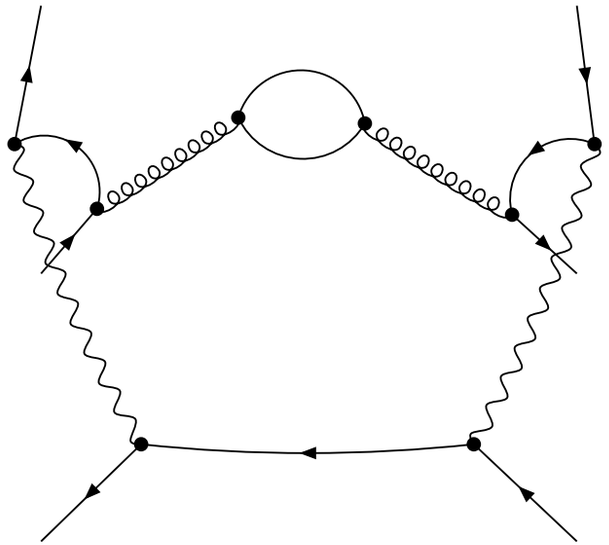


−3-16+18

final

Denominator:

```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p+q]^-2 prop[0,-p+q+k[2]]^-1 prop[0,-p+q+k[4]]^-1
```



−1-16+22

embedding 15 [1, 0, 1, −1, −2]

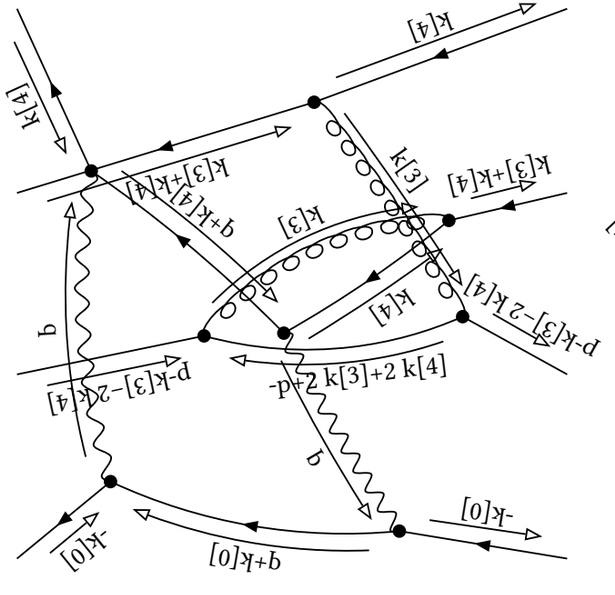
initial

Denominator:

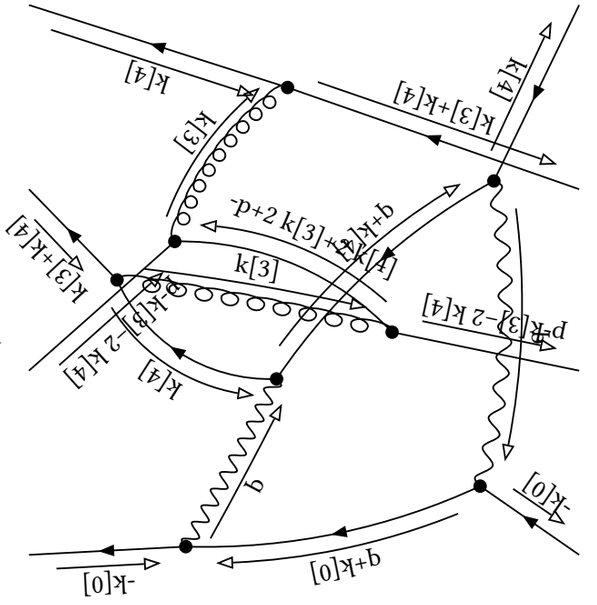
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[3]+2 k[4]]^-1 prop[0,-p+2 k[3]+2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[3]+2 k[4]]^-1 prop[0,-p+2 k[3]+2 k[4]]^-1 dot[q,q]^-2
```



−3-9+16+20

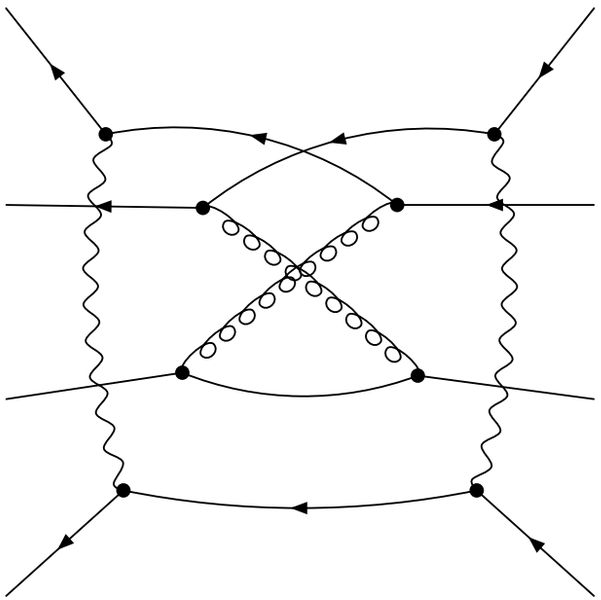


−3-9+16+18

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+q+k[3]+2 k[4]]^-1 prop[0,-p+q+2 k[3]+2 k[4]]^-1
```



−1-9+16+22

embedding 16 [1, 0, 1, −1, −1]

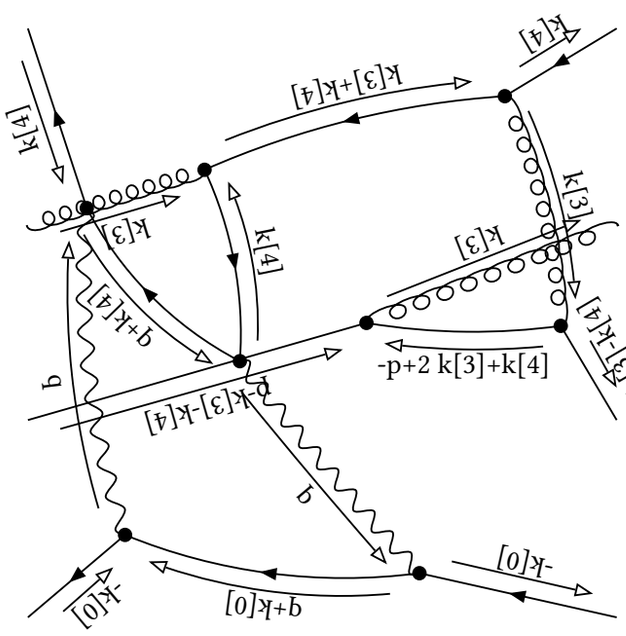
initial

Denominator:

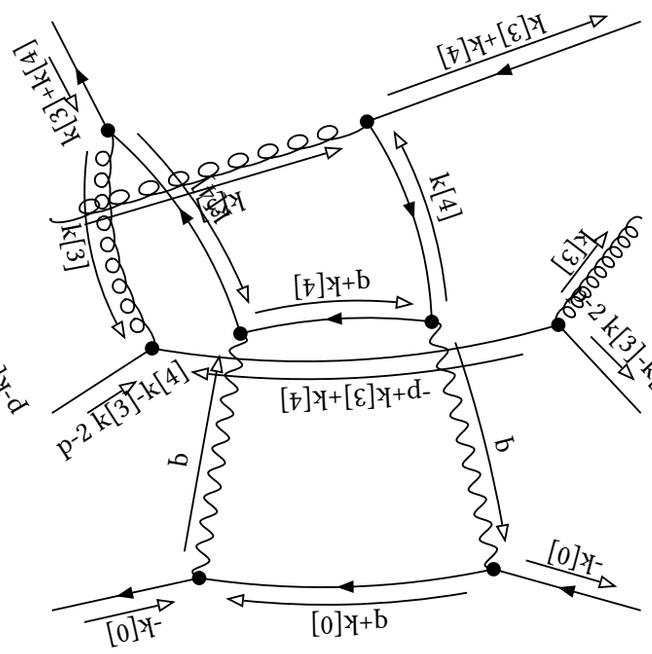
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[3]+k[4]]^-1 prop[0,-p+2 k[3]+k[4]]^-1
```

Partial Fractioned Denominator:

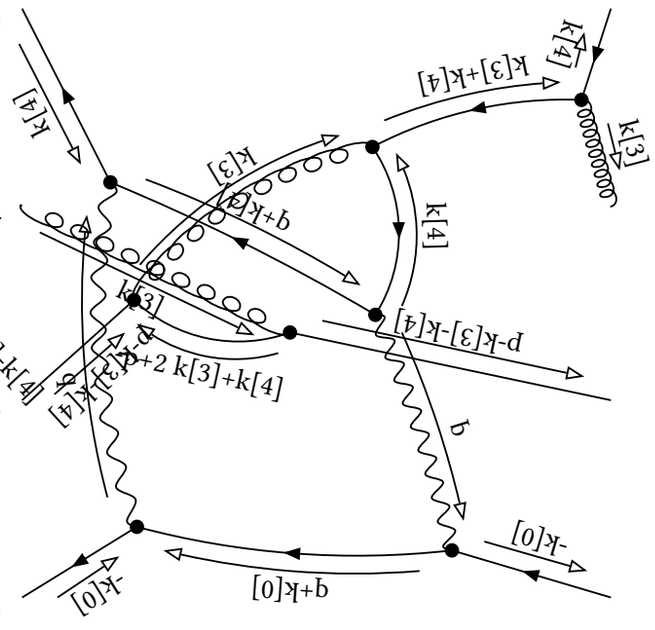
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[3]+k[4]]^-1 prop[0,-p+2 k[3]+k[4]]^-1 dot[q,q]^-2
```



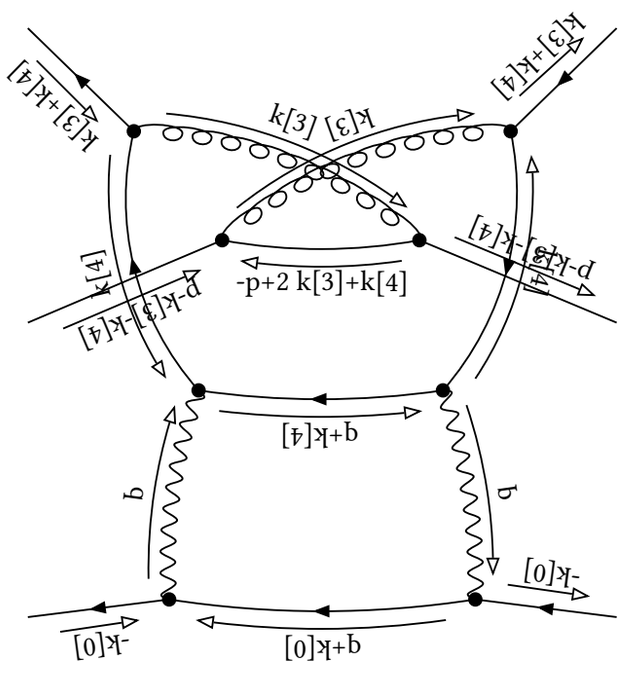
−3-9+14+20



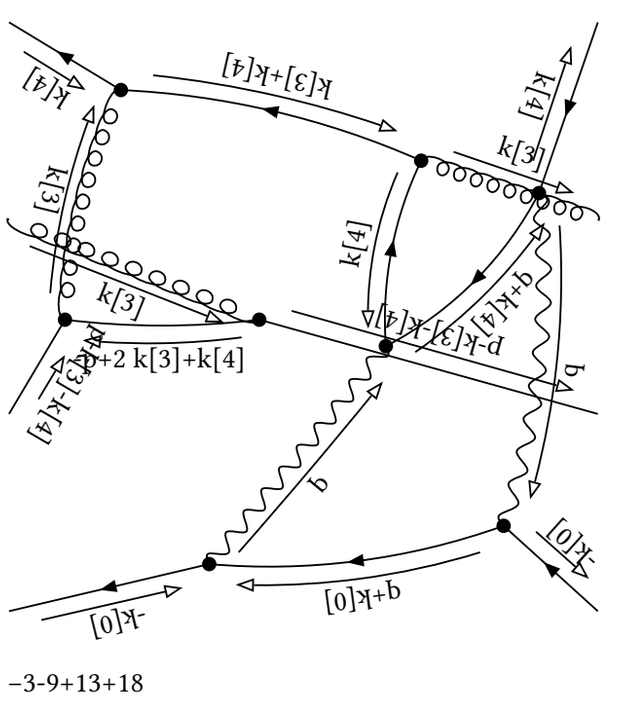
−3-10+14+16



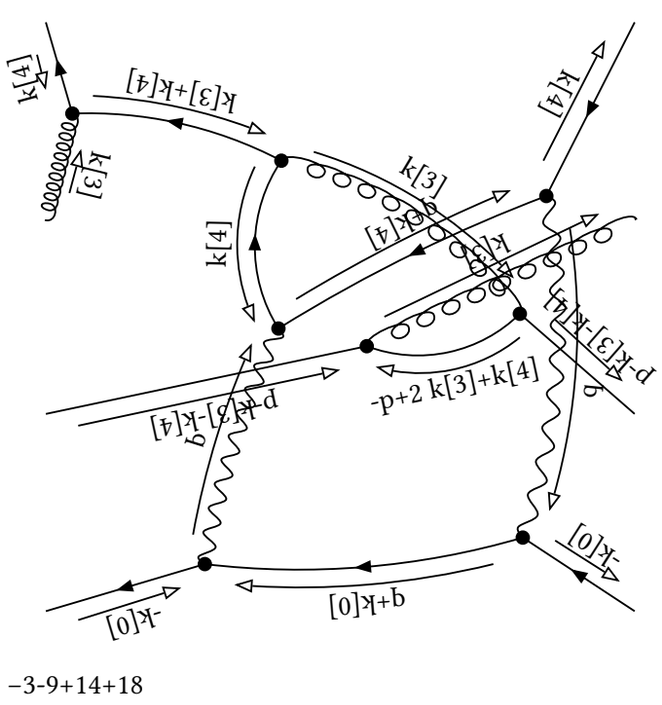
−3-9+13+20



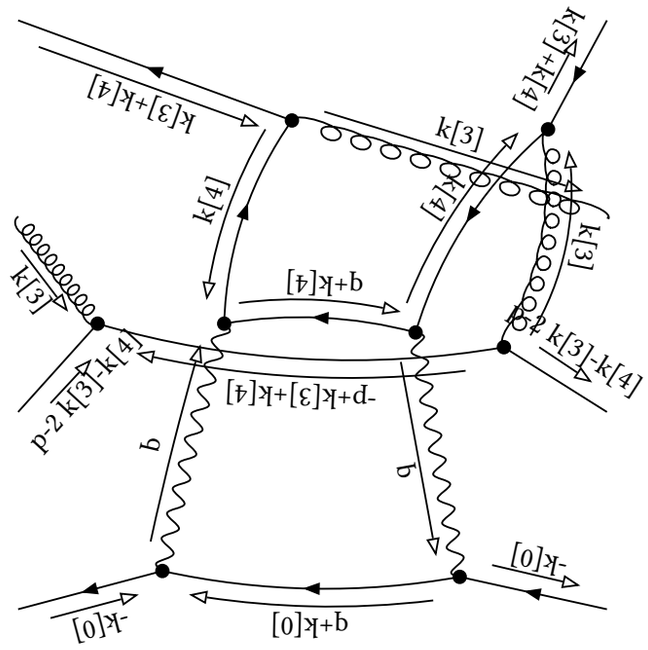
−3-9+16



−3-9+13+18



−3-9+14+18

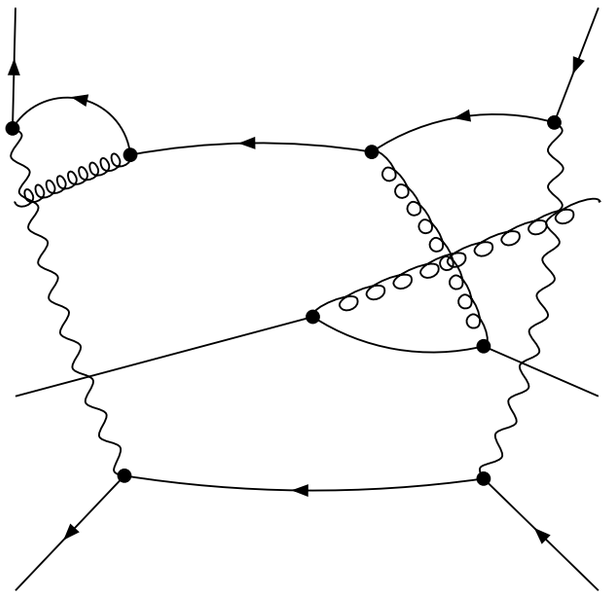


−3-10+13+16

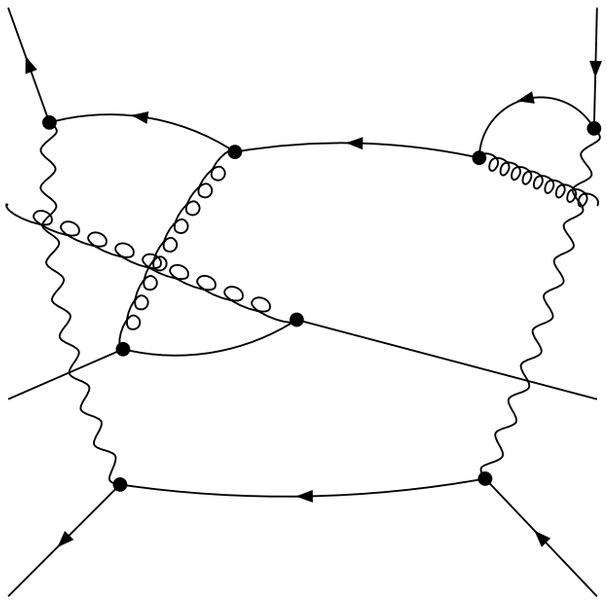
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+q+k[3]+k[4]]^-1 prop[0,-p+q+2 k[3]+k[4]]^-1
```



−1-9+14+22



−1-9+13+22

embedding 17 [1, 0, 1, 0, −2]

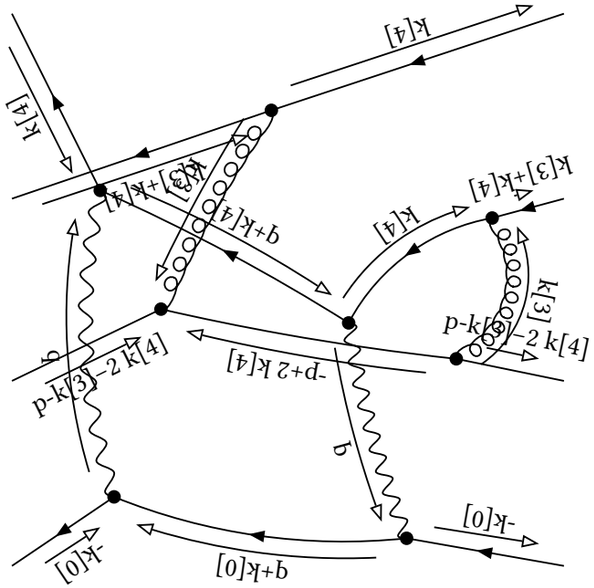
initial

Denominator:

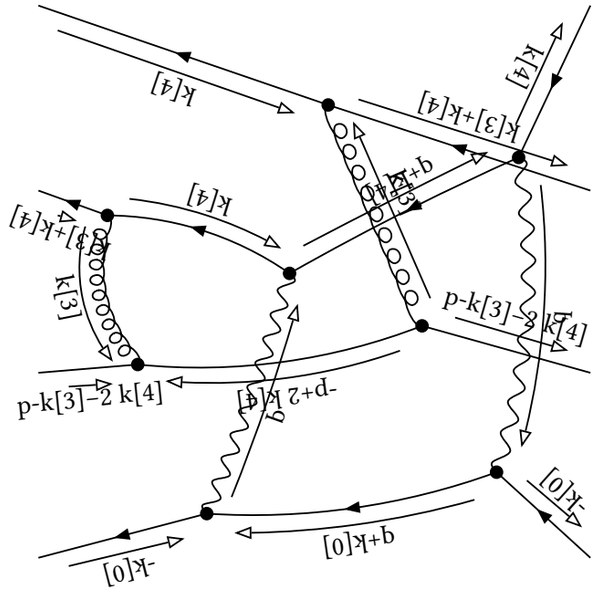
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+2 k[4]]^-1 prop[0,-p+k[3]+2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+2 k[4]]^-1 prop[0,-p+k[3]+2 k[4]]^-1 dot[q,q]^-2
```



−3-10+16+20

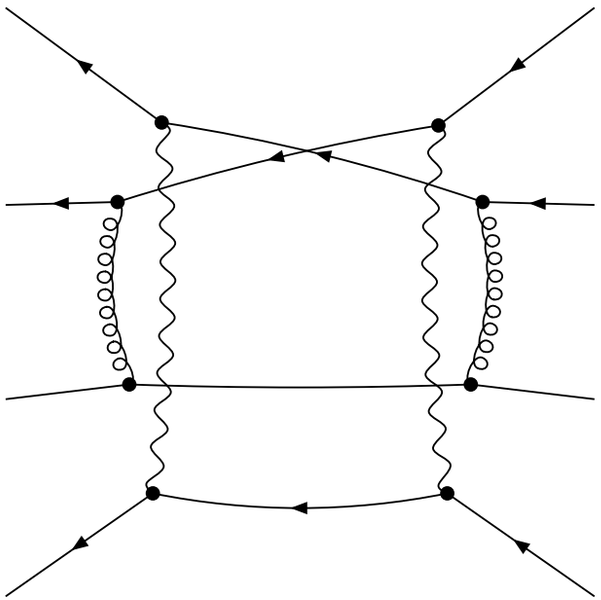


−3-10+16+18

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+q+2 k[4]]^-1 prop[0,-p+q+k[3]+2 k[4]]^-1
```



−1-10+16+22

embedding 18 [1, 0, 1, 0, −1]

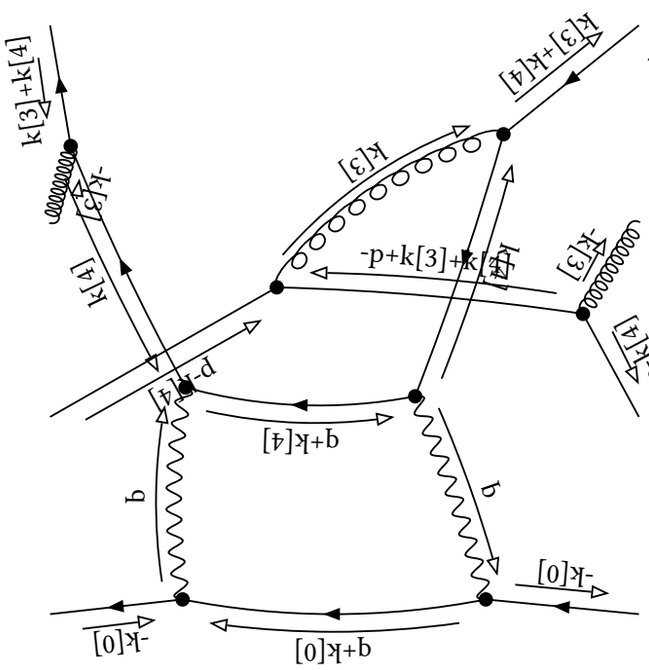
initial

Denominator:

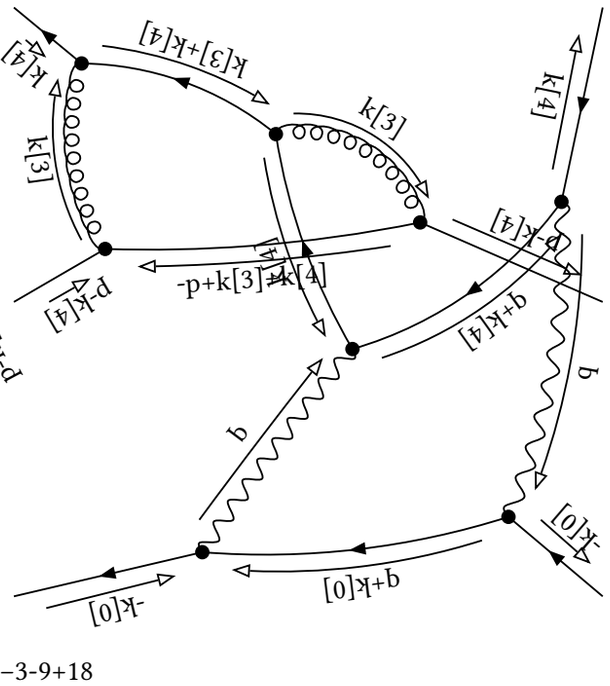
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[4]]^-1 prop[0,-p+k[3]+k[4]]^-1
```

Partial Fractioned Denominator:

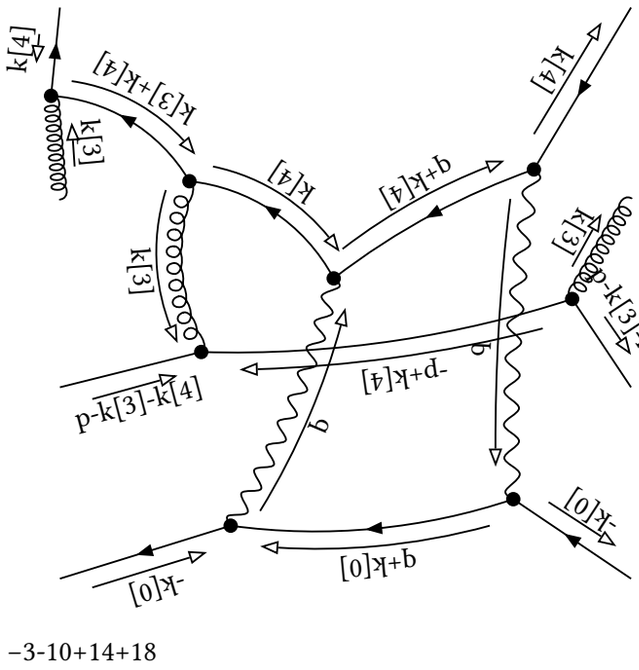
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[4]]^-1 prop[0,-p+k[3]+k[4]]^-1 dot[q,q]^-2
```



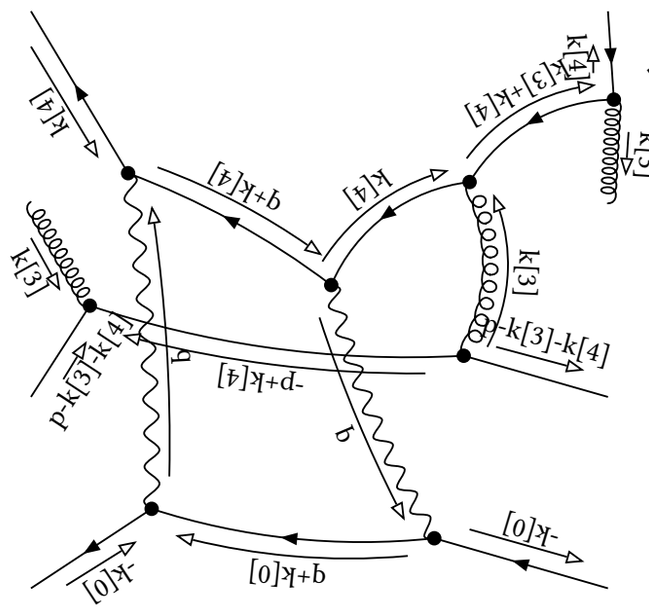
−3-9-13+16



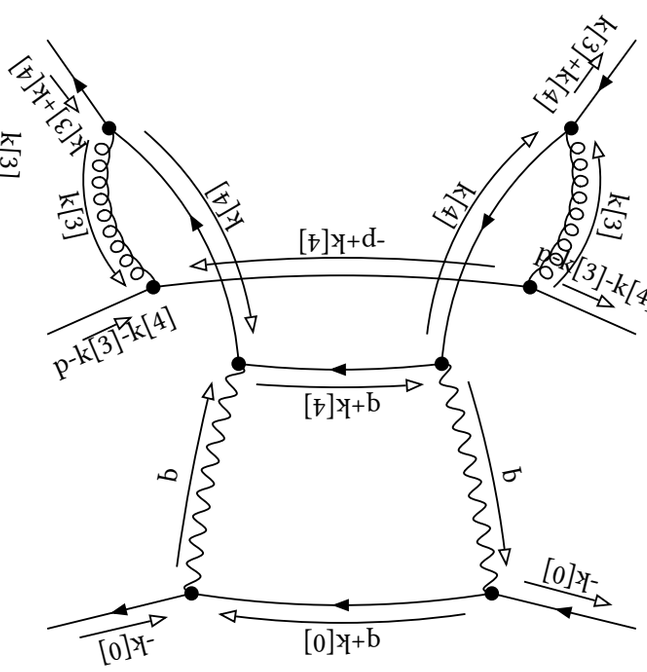
−3-9+18



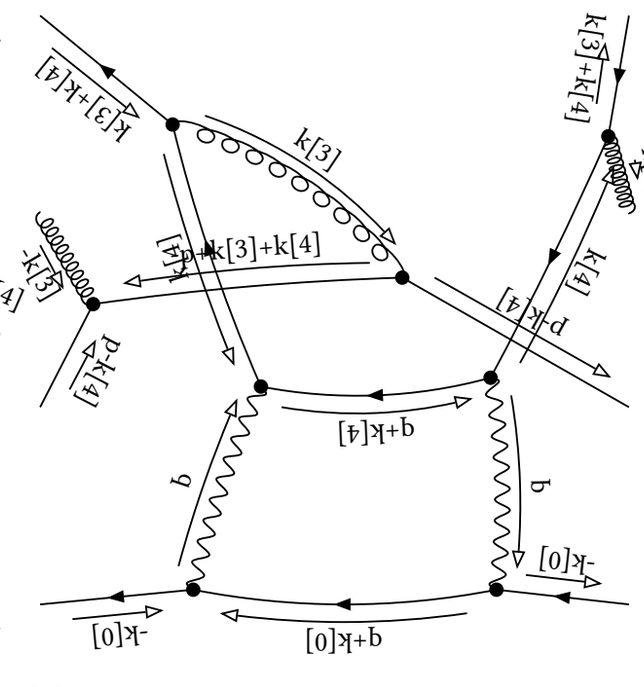
−3-10+14+18



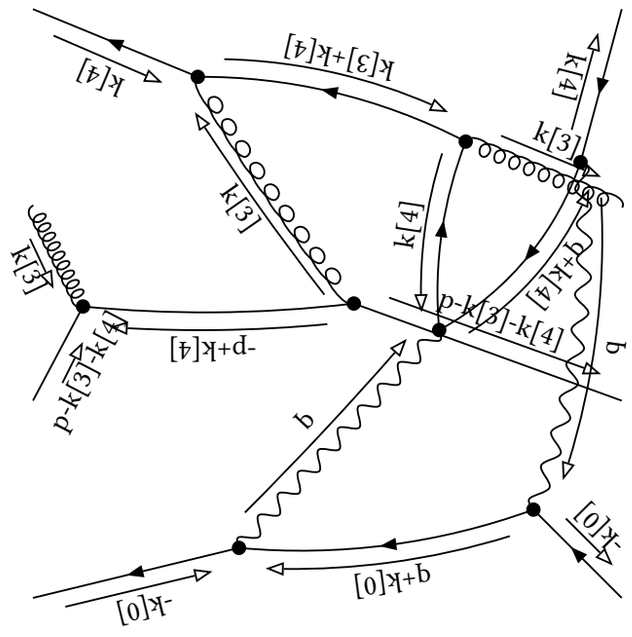
−3-10+13+20



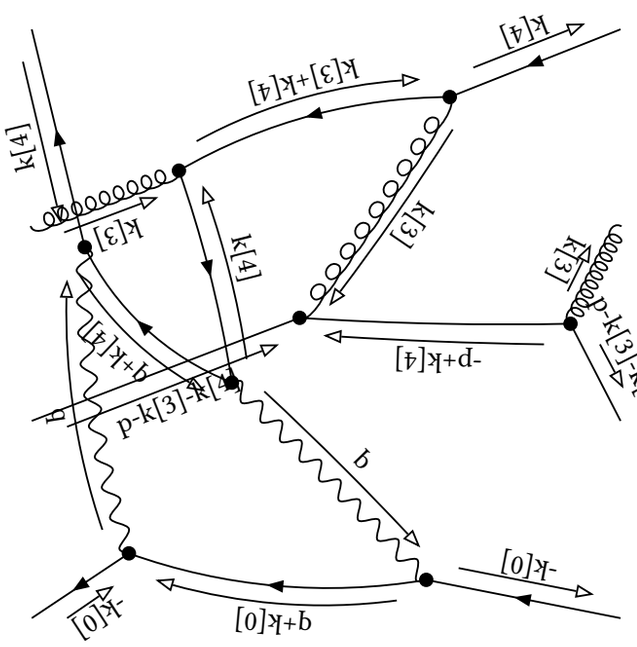
−3-10+16



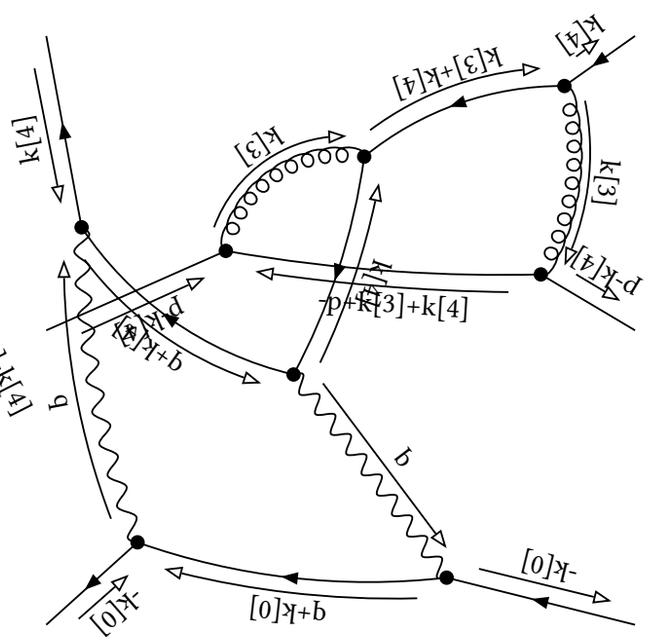
−3-9-14+16



−3-10+13+18



−3-10+14+20

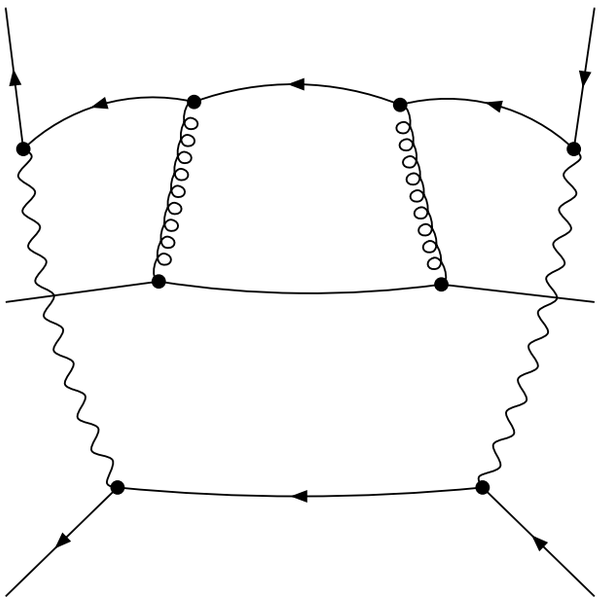


−3-9+20

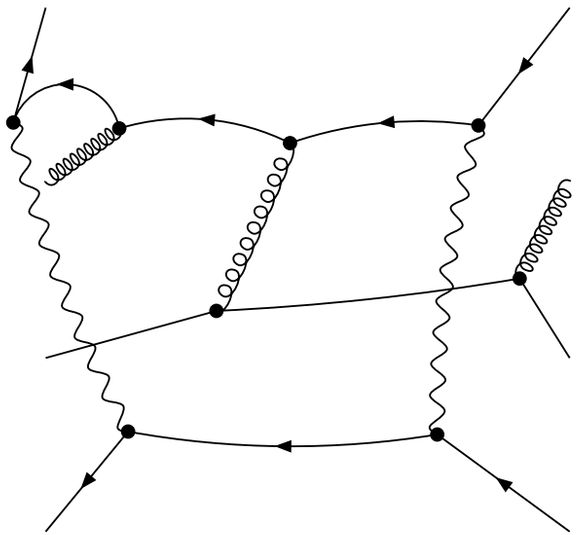
final

Denominator:

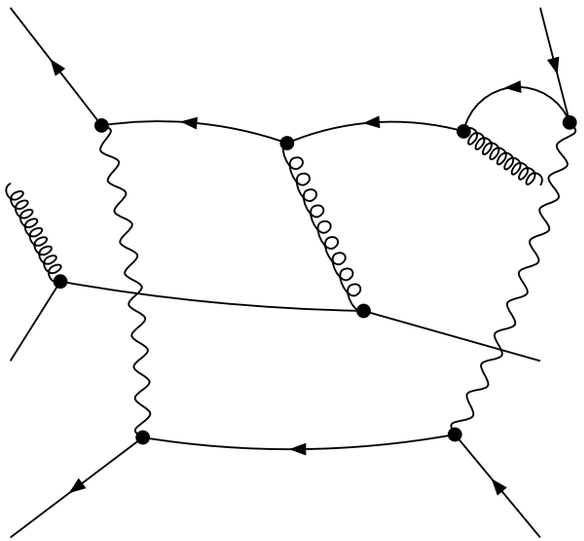
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+q+k[4]]^-1 prop[0,-p+q+k[3]+k[4]]^-1
```



−1-9+22



−1-10+14+22



−1-10+13+22

embedding 19 [1, 0, 1, 1, −1]

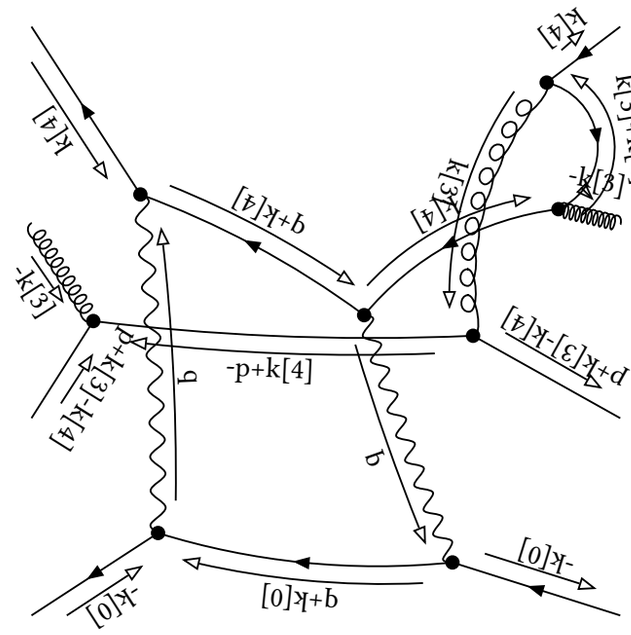
initial

Denominator:

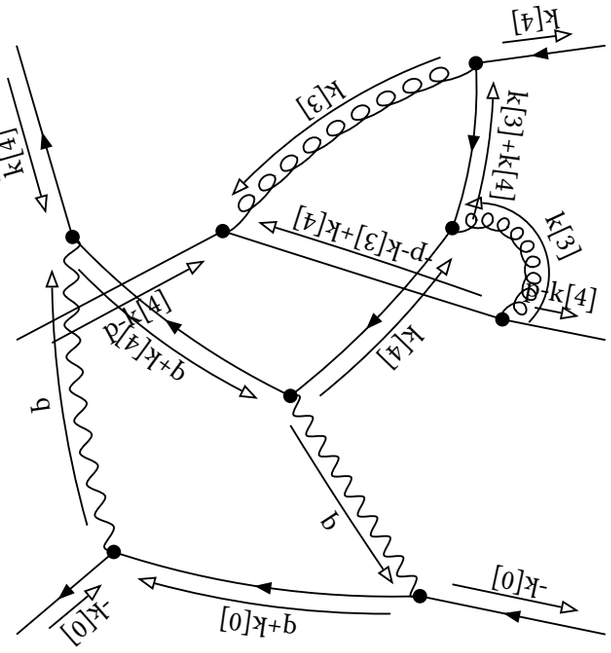
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[4]]^-1 prop[0,-p-k[3]+k[4]]^-1
```

Partial Fractioned Denominator:

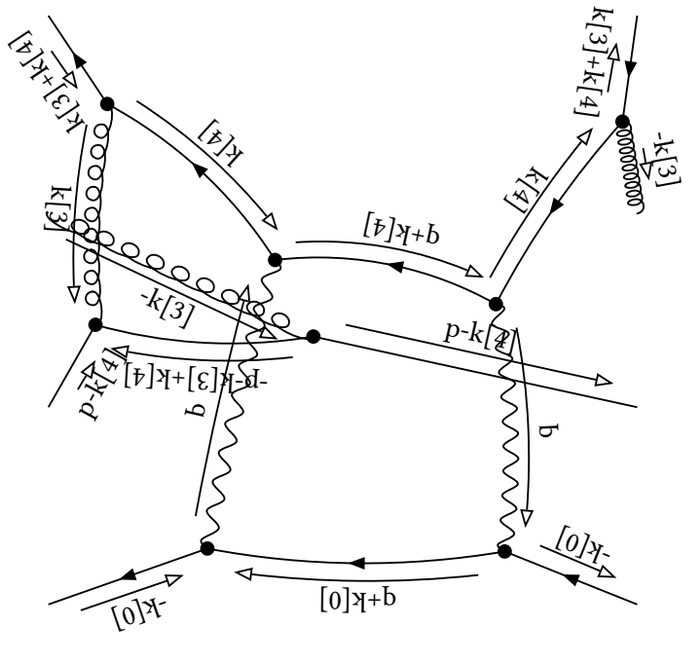
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[4]]^-1 prop[0,-p-k[3]+k[4]]^-1 dot[q,q]^-2
```



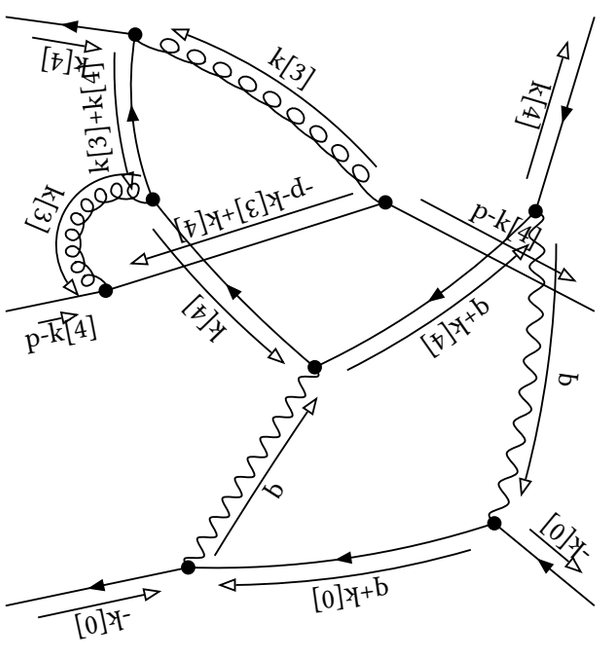
−3-9-14+20



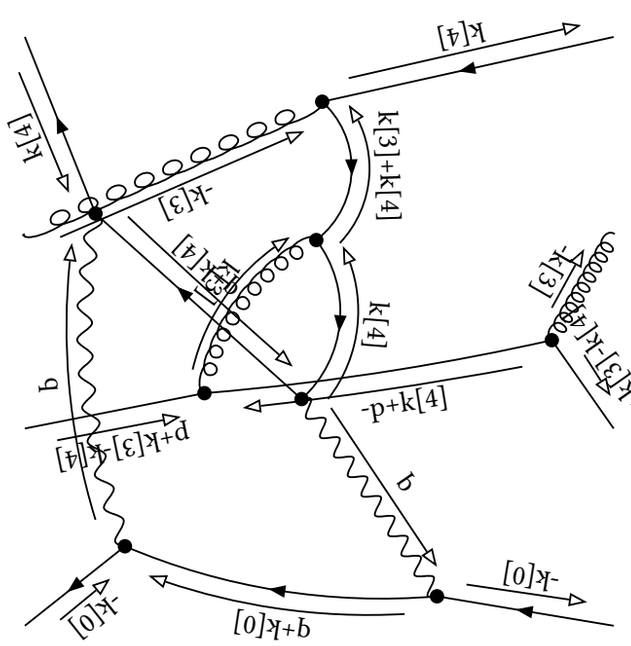
−3-10+20



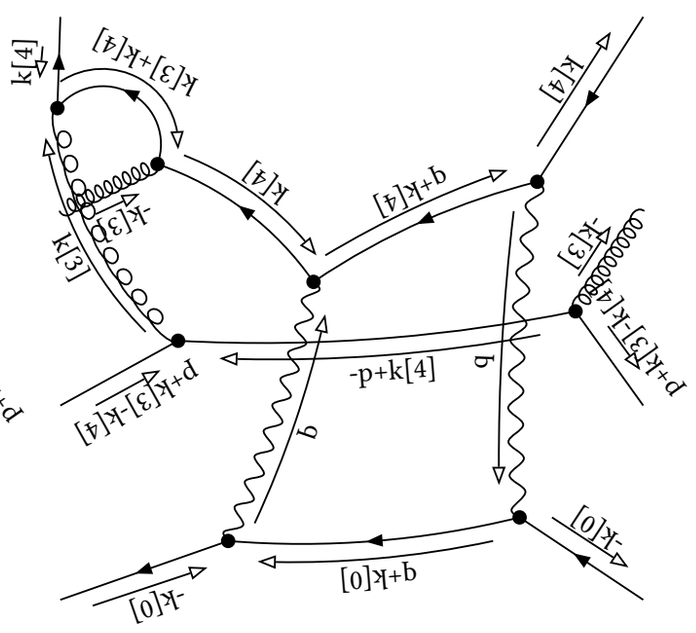
−3-10-14+16



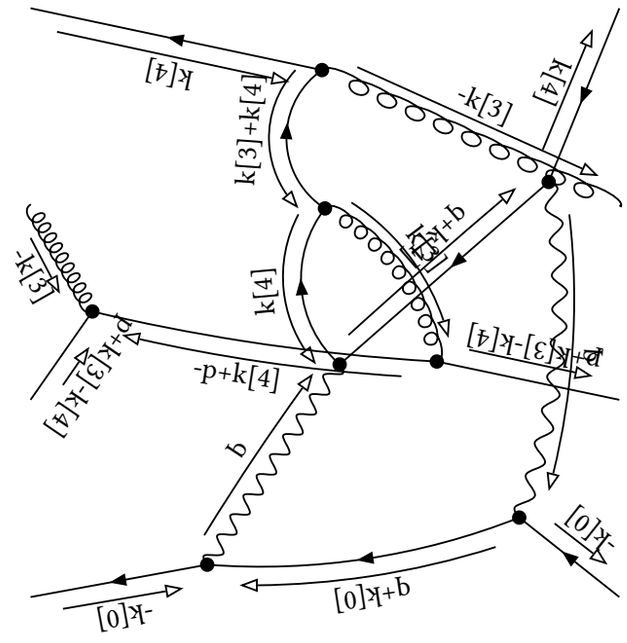
−3-10+18



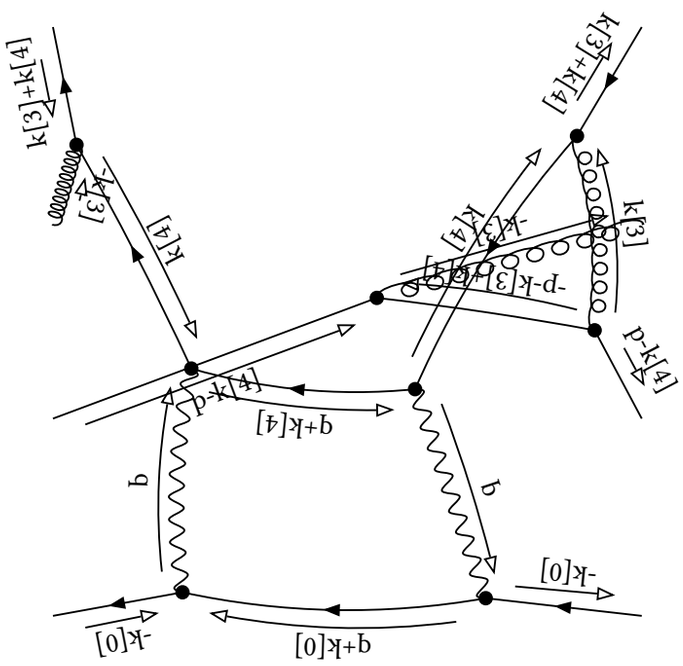
−3-9-13+20



−3-9-13+18



−3-9-14+18

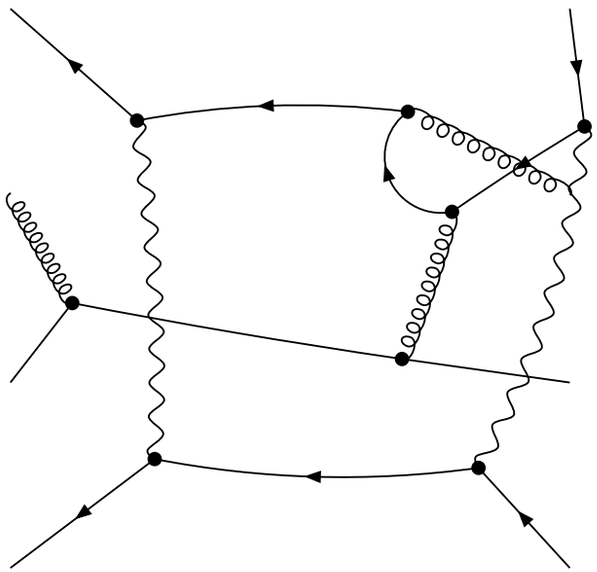


−3-10-13+16

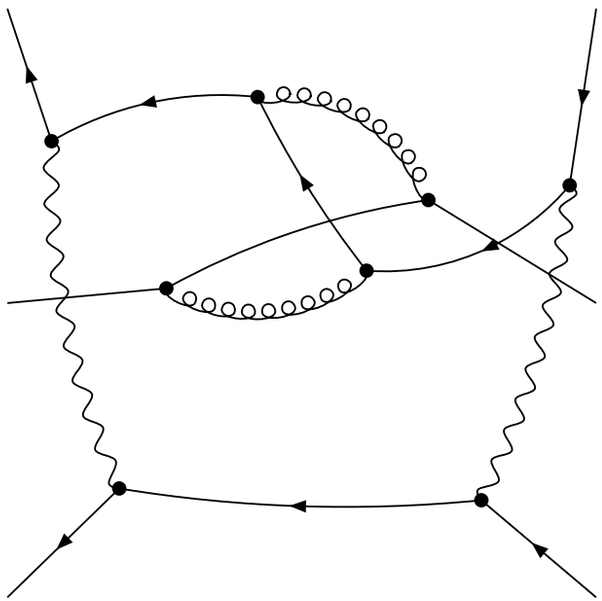
final

Denominator:

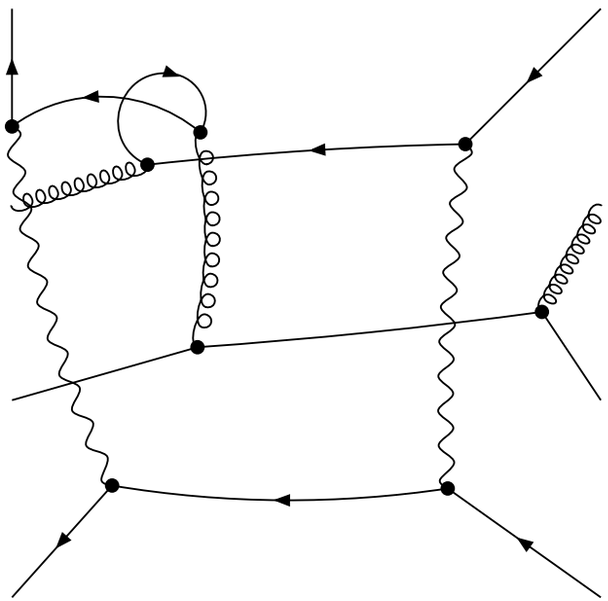
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+q+k[4]]^-1 prop[0,-p+q-k[3]+k[4]]^-1
```



−1-9-14+22



−1-10+22



−1-9-13+22

embedding 20 [1, 0, 1, 1, 0]

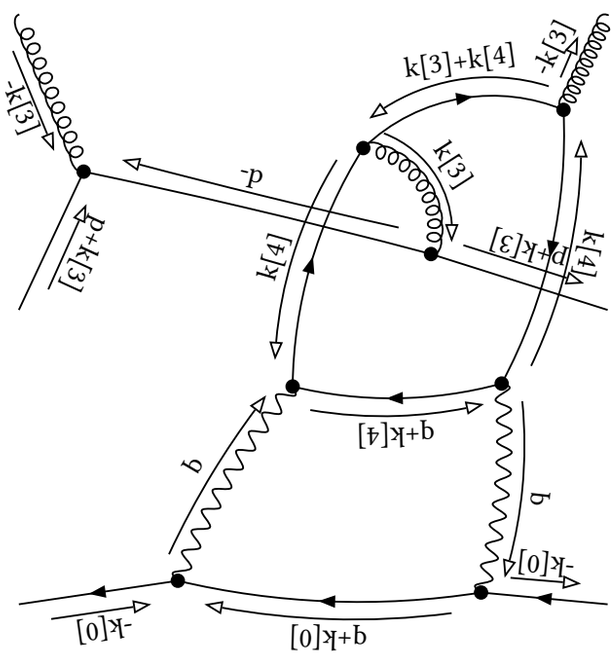
initial

Denominator:

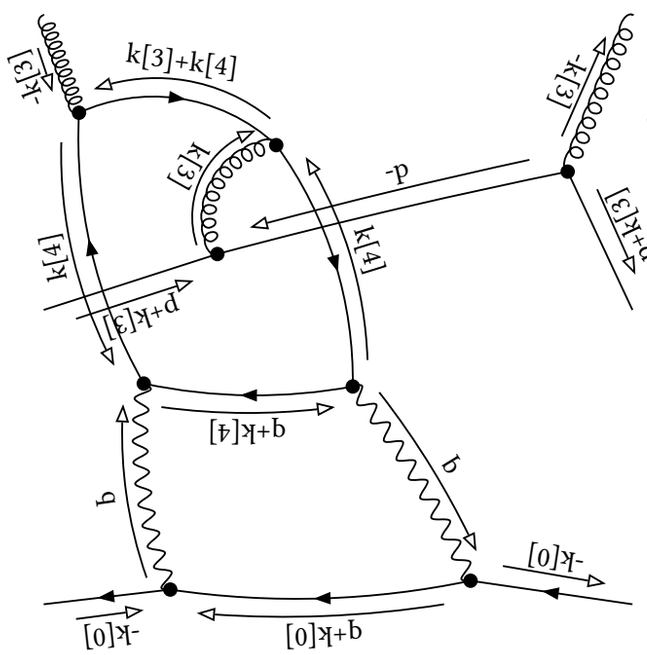
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,-p]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]]^-1
```

Partial Fractioned Denominator:

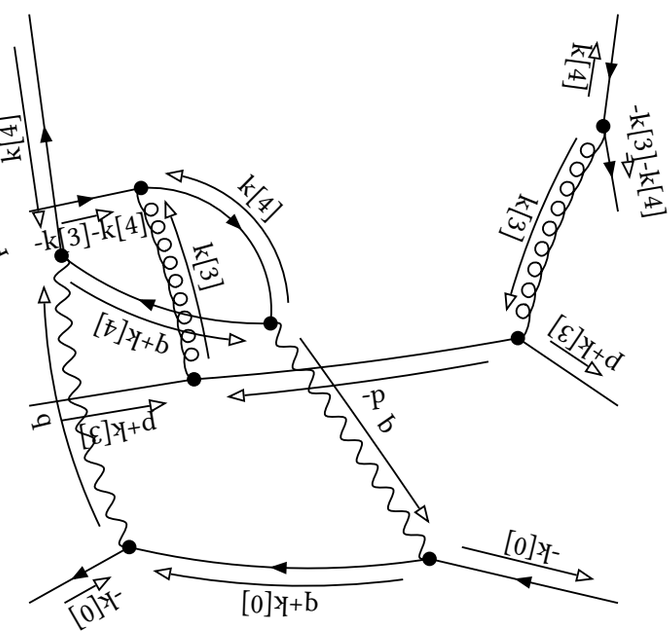
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]]^-1 dot[p,p]^-1 dot[q,q]^-2
```



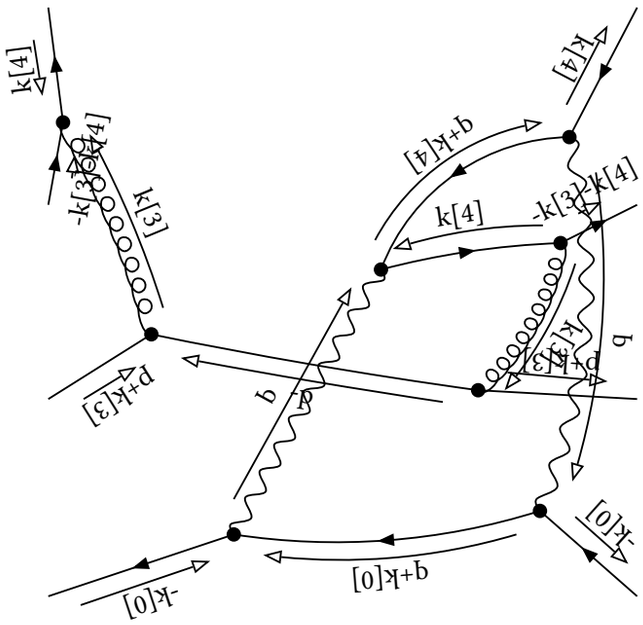
−3-9-14



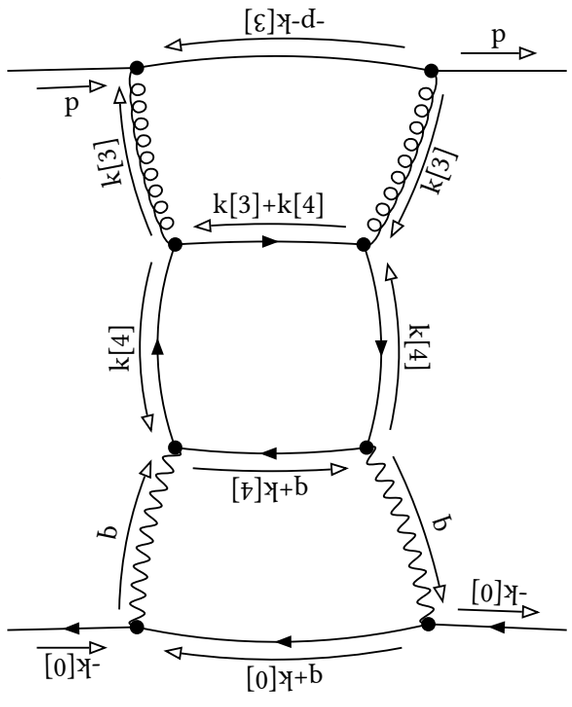
−3-9-13



−3-9-16+20



−3-9-16+18

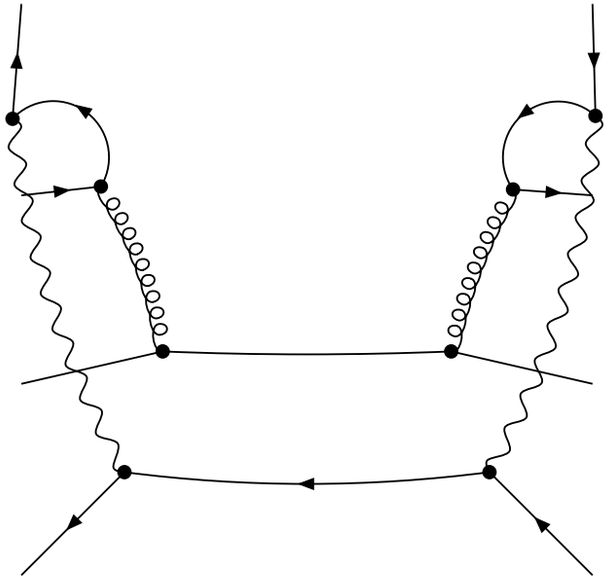


−3-10

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,-p+q]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+q-k[3]]^-1
```



−1-9-16+22

embedding 21 [1, 0, 1, 2, −1]

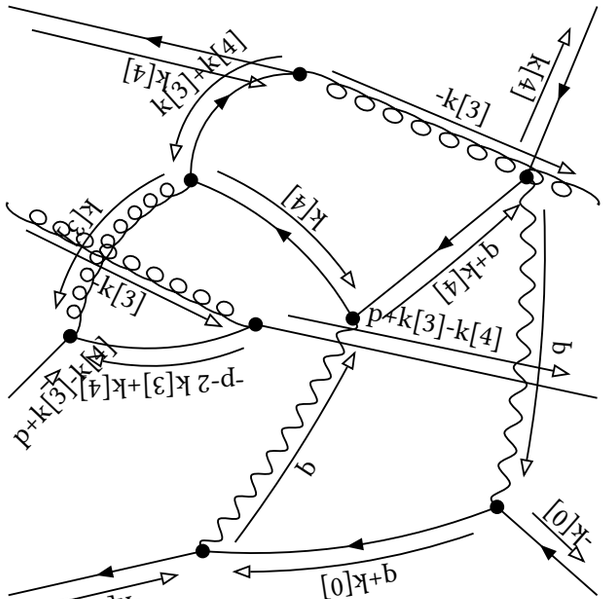
initial

Denominator:

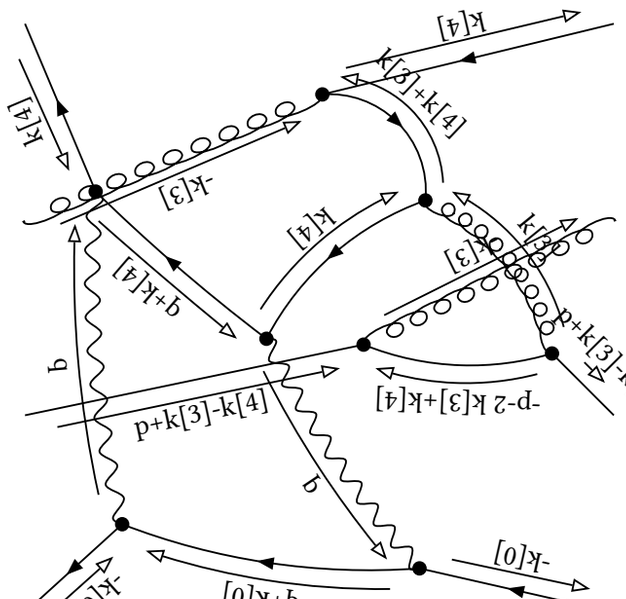
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]+k[4]]^-1 prop[0,-p-2 k[3]+k[4]]^-1
```

Partial Fractioned Denominator:

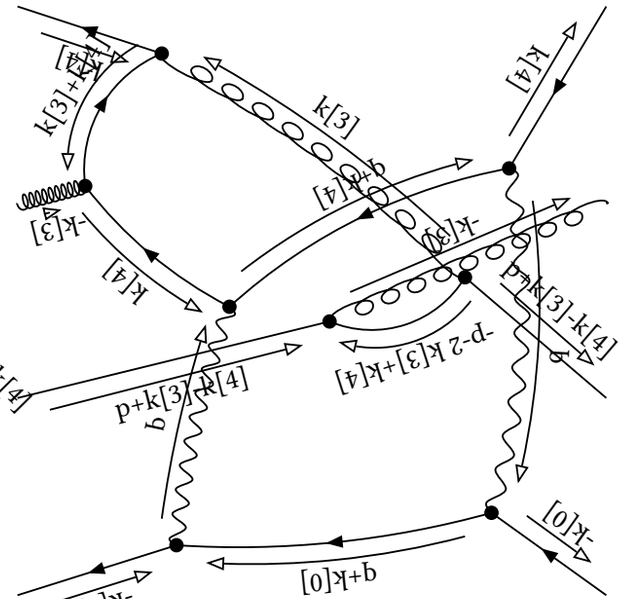
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]+k[4]]^-1 prop[0,-p-2 k[3]+k[4]]^-1 dot[q,q]^-2
```



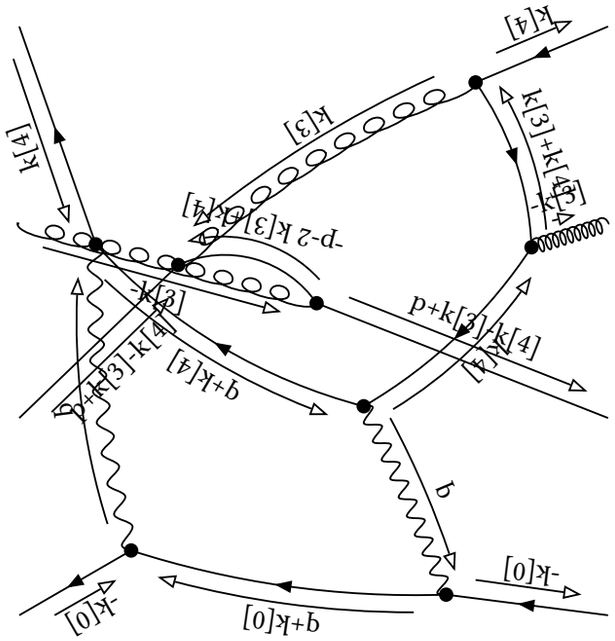
−3-10-14+18



−3-10-13+20



−3-10-13+18

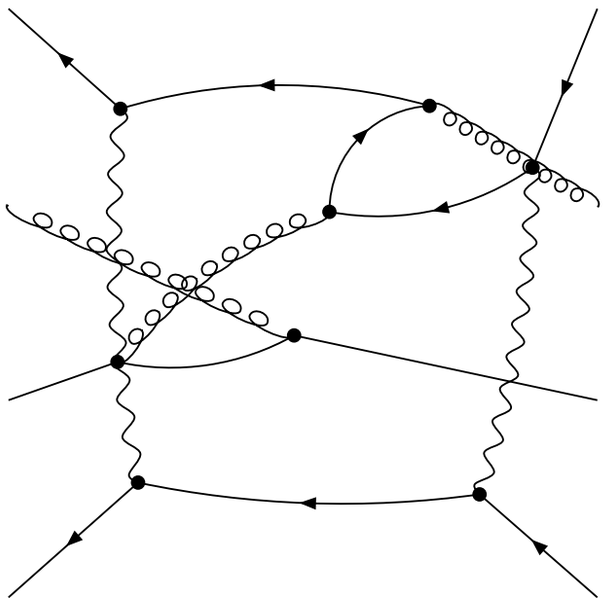


−3-10-14+20

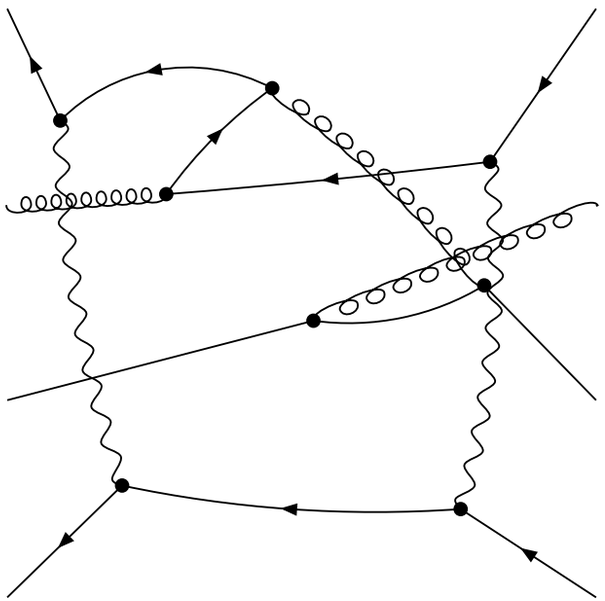
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+q-k[3]+k[4]]^-1 prop[0,-p+q-2 k[3]+k[4]]^-1
```



−1-10-14+22



−1-10-13+22

embedding 22 [1, 0, 1, 2, 0]

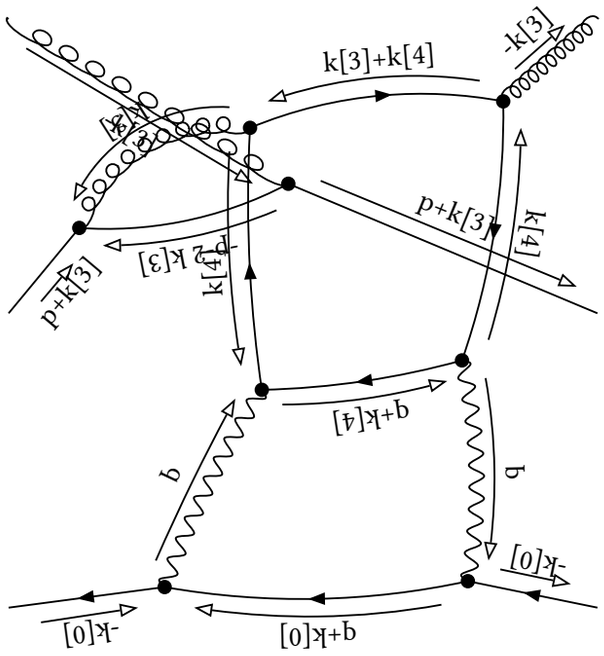
initial

Denominator:

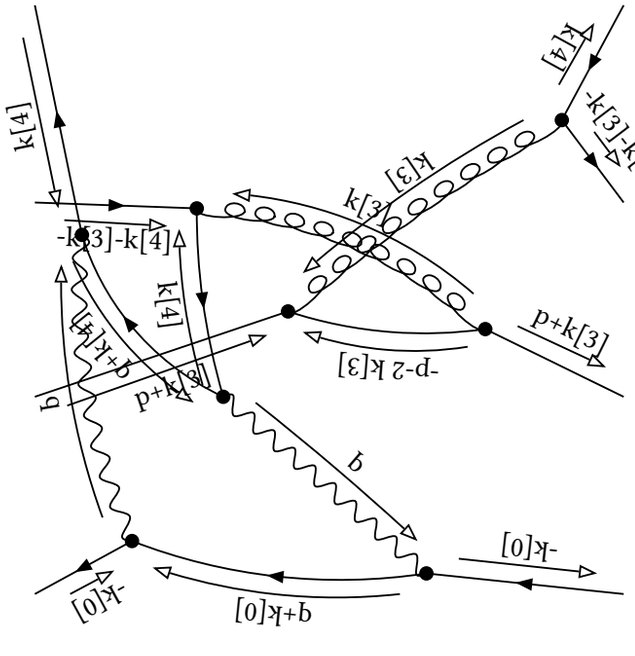
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]]^-1 prop[0,-p-2 k[3]]^-1
```

Partial Fractioned Denominator:

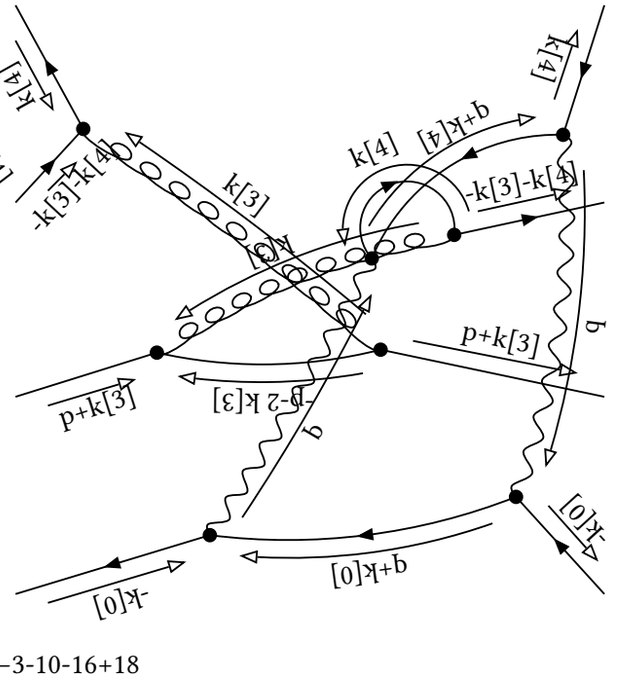
```
-prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]]^-1 dot[p,p]^-1 dot[q,q]^-2
  +2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-2 k[3]]^-1 dot[p,p]^-1 dot[q,q]^-2
  -2 prop[0,k[3]]^-1 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]]^-1 dot[p,p]^-2 dot[q,q]^-2
  +4 prop[0,k[3]]^-1 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-2 k[3]]^-1 dot[p,p]^-2 dot[q,q]^-2
  +4 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]]^-1 prop[0,-p-2 k[3]]^-1 dot[p,p]^-2 dot[q,q]^-2
```



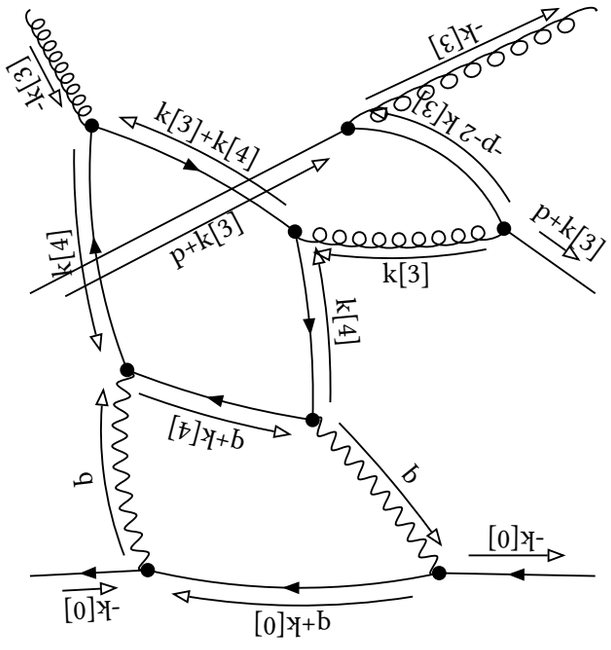
−3-10-14



−3-10-16+20



−3-10-16+18

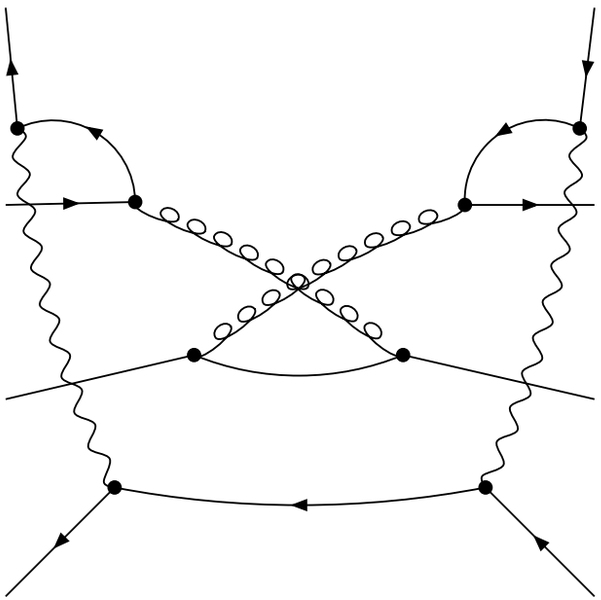


−3-10-13

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+q-k[3]]^-1 prop[0,-p+q-2 k[3]]^-1
```



−1-10-16+22

embedding 23 [1, 0, 2, 1, −1]

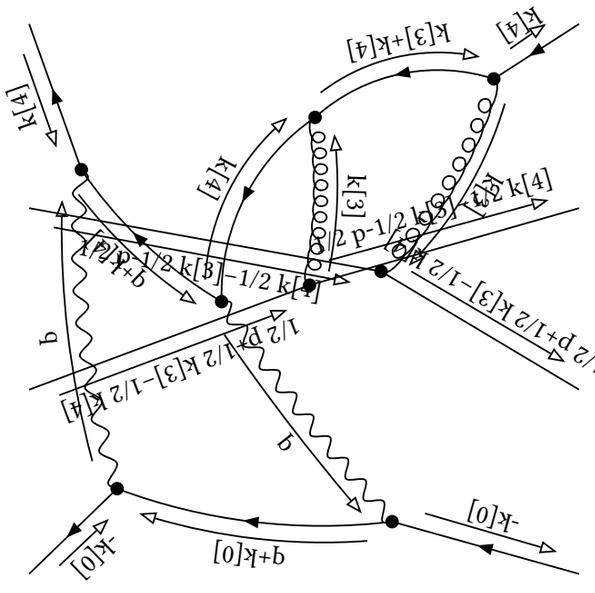
initial

Denominator:

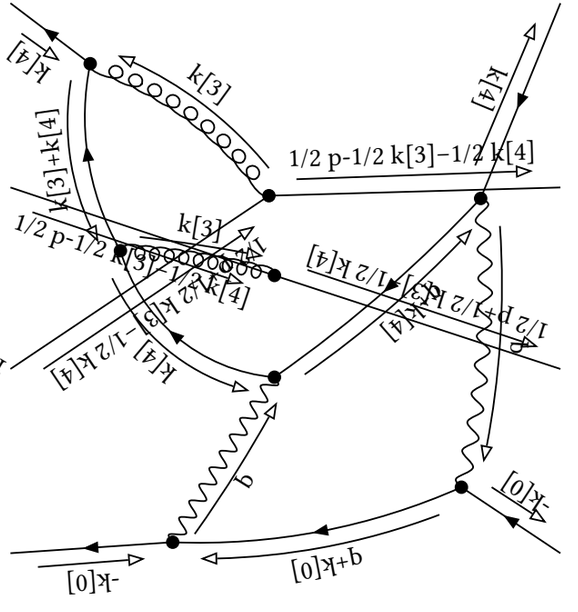
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-1/2 p+1/2 k[3]+1/2 k[4]]^-1 prop[0,-1/2 p-1/2 k[3]+1/2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-1/2 p+1/2 k[3]+1/2 k[4]]^-1 prop[0,-1/2 p-1/2 k[3]+1/2 k[4]]^-1 dot[q,q]^-2
```



−3-9-10+20

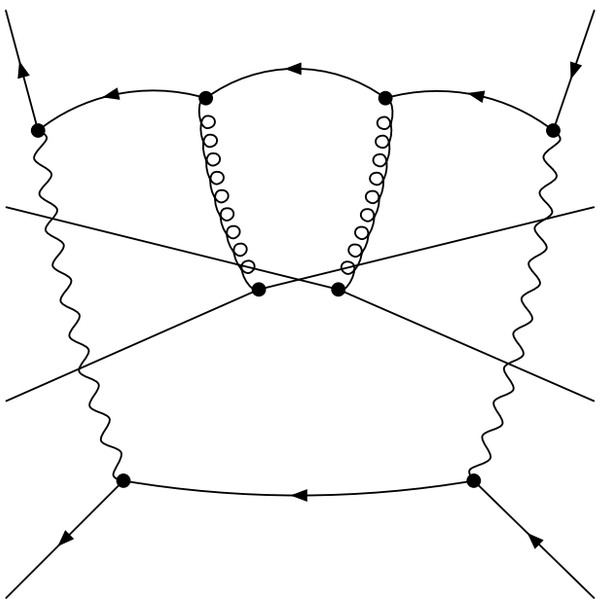


−3-9-10+18

final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-1/2 p+1/2 q+1/2 k[3]+1/2 k[4]]^-1 prop[0,-1/2 p+1/2 q-1/2 k[3]+1/2
k[4]]^-1
```



−1-9-10+22

embedding 24 [1, 1, −2, −1, 1]

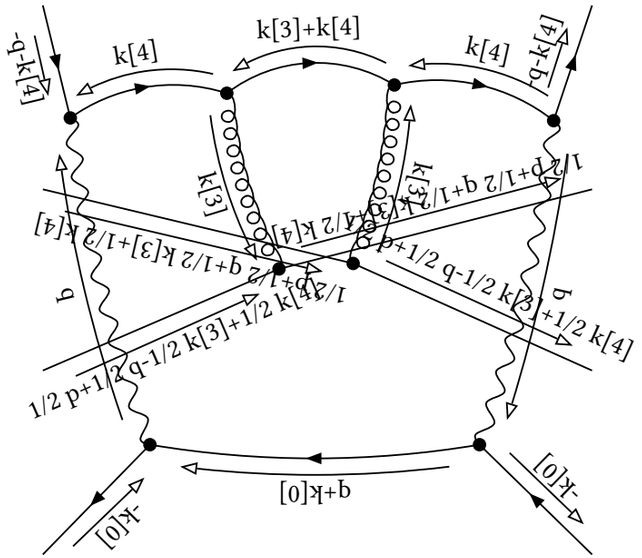
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,1/2 p+1/2 q+1/2 k[3]+1/2 k[4]]^-1 prop[0,1/2 p+1/2 q-1/2 k[3]+1/2
k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,1/2 p+1/2 q+1/2 k[3]+1/2 k[4]]^-1 prop[0,1/2 p+1/2 q-1/2 k[3]+1/2 k[4]]^-1
dot[q,q]^-2
```

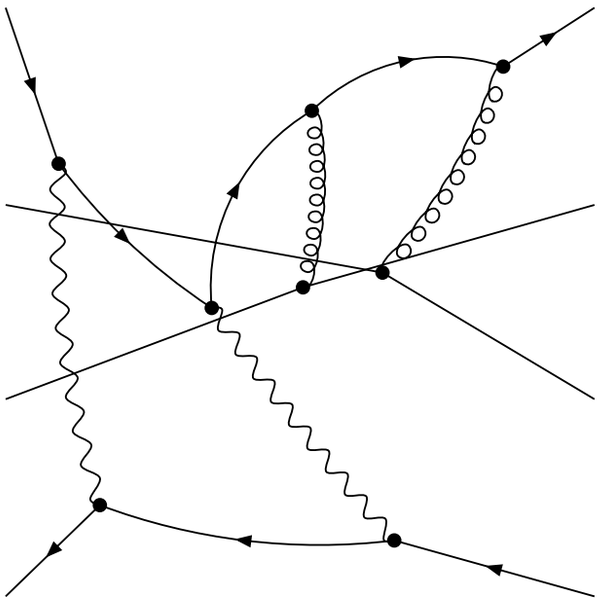


−3+9+10-22

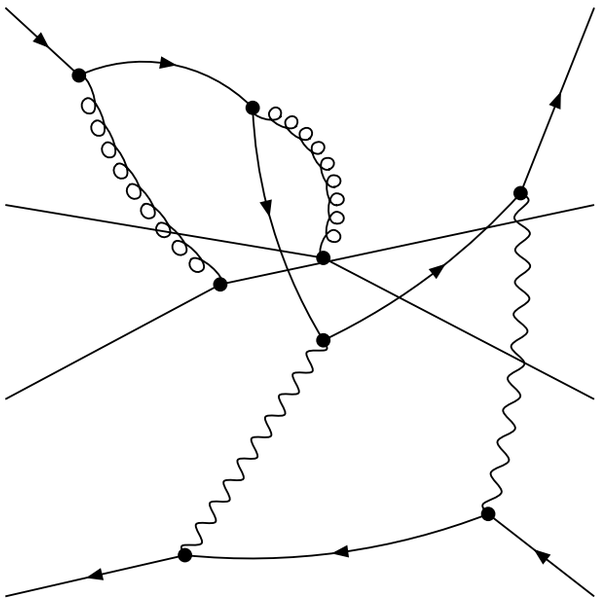
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,1/2 p+1/2 k[3]+1/2 k[4]]^-1 prop[0,1/2 p-1/2 k[3]+1/2 k[4]]^-1
```



−1+9+10-18



−1+9+10-20

embedding 25 [1, 1, −1, −2, 0]

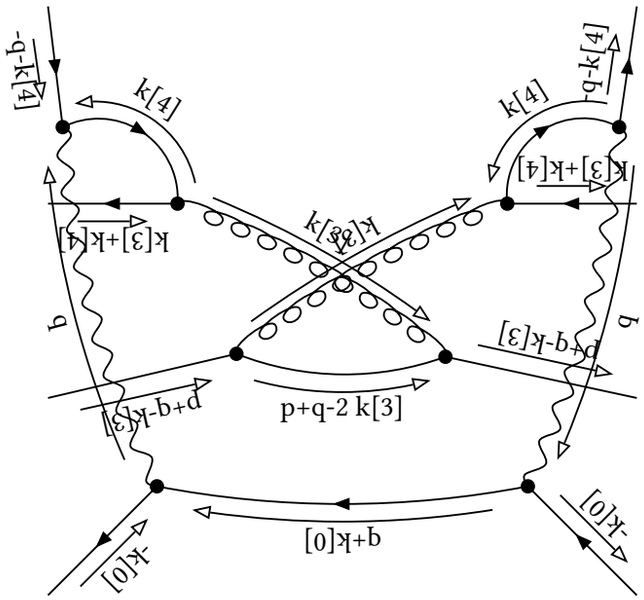
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]]^-1 prop[0,p+q-2 k[3]]^-1
```

Partial Fractioned Denominator:

```
-1/2 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[3]]^-1 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[3]]^-1 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-2 k[3]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]]^-1 prop[0,p+q-2 k[3]]^-1 dot[q,q]^-2
  -1/2 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-2 k[3]]^-1 dot[q,q]^-2
```

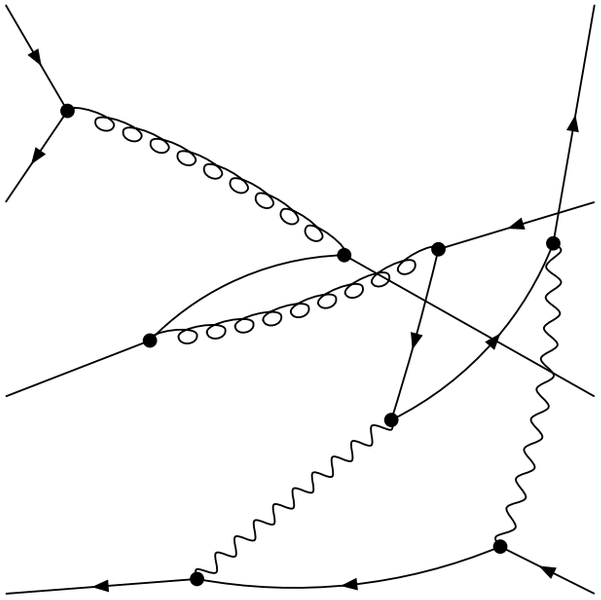


−3+10+16-22

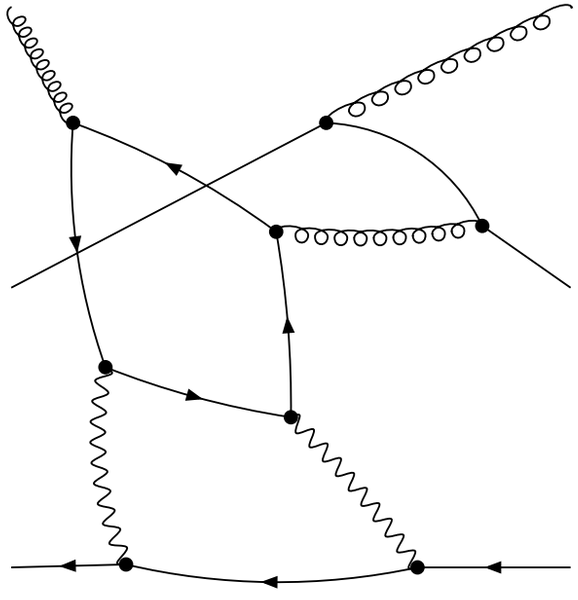
final

Denominator:

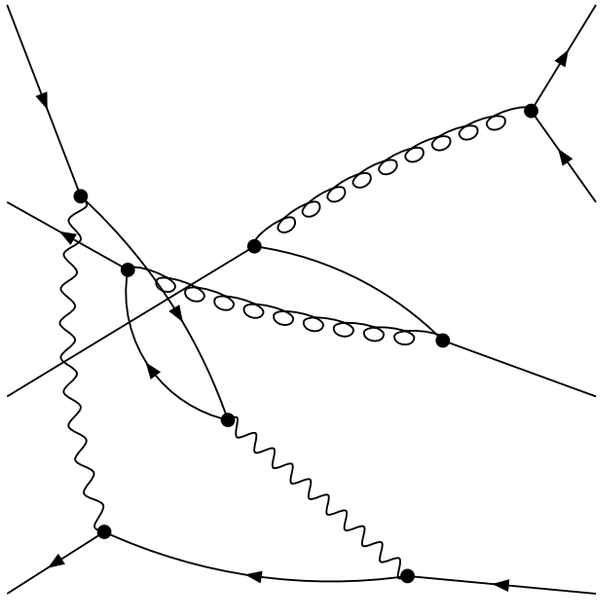
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[3]]^-1 prop[0,p-2 k[3]]^-1
```



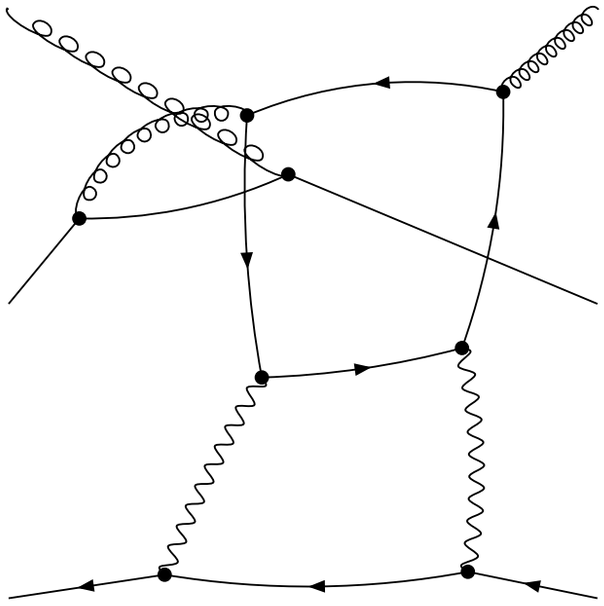
−1+10+16-20



−1+10+14



−1+10+16-18



−1+10+13

embedding 26 [1, 1, −1, −2, 1]

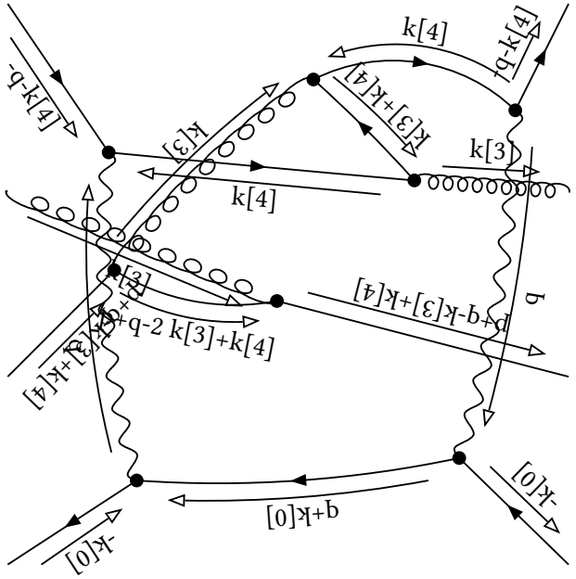
initial

Denominator:

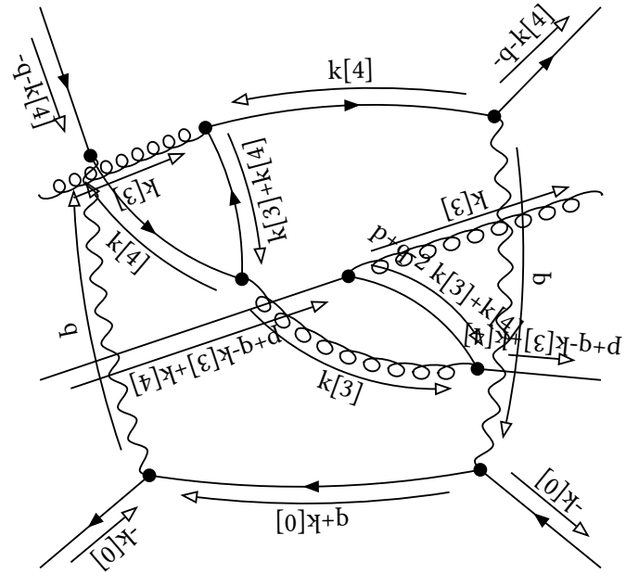
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]+k[4]]^-1 prop[0,p+q-2 k[3]+k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]+k[4]]^-1 prop[0,p+q-2 k[3]+k[4]]^-1 dot[q,q]^-2
```



−3+10+13-22

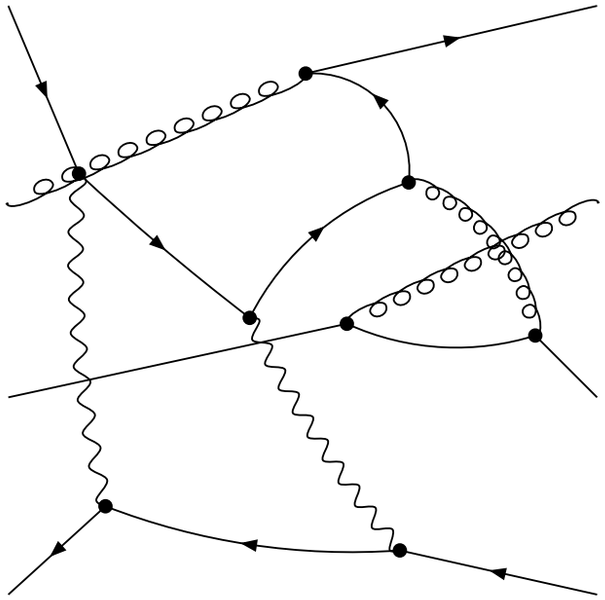


−3+10+14-22

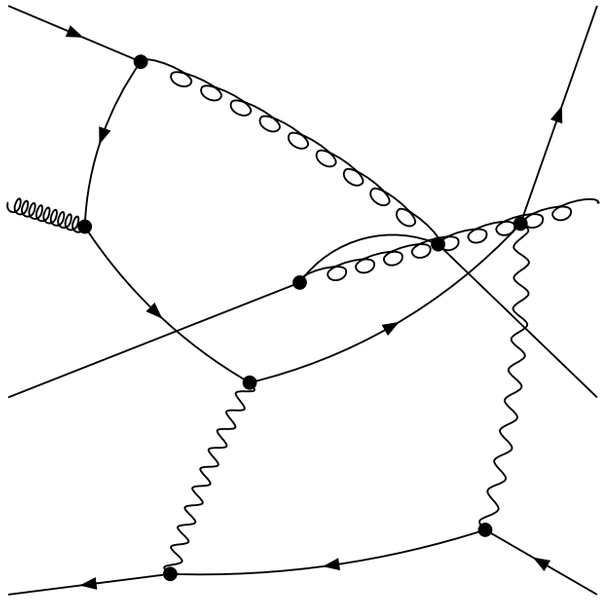
final

Denominator:

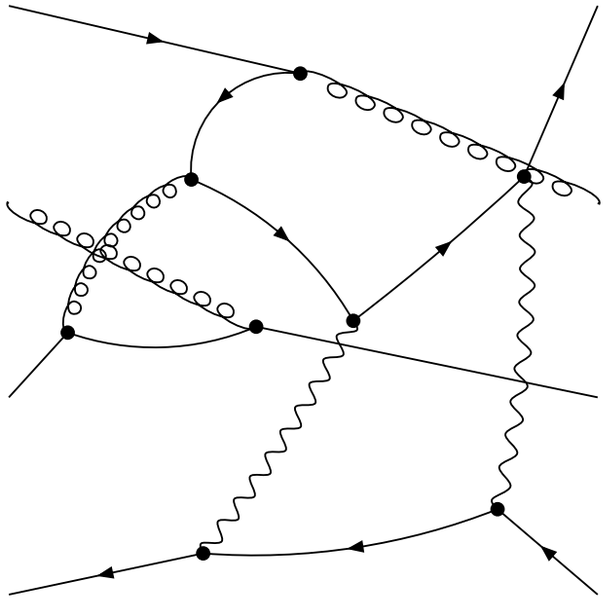
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[3]+k[4]]^-1 prop[0,p-2 k[3]+k[4]]^-1
```



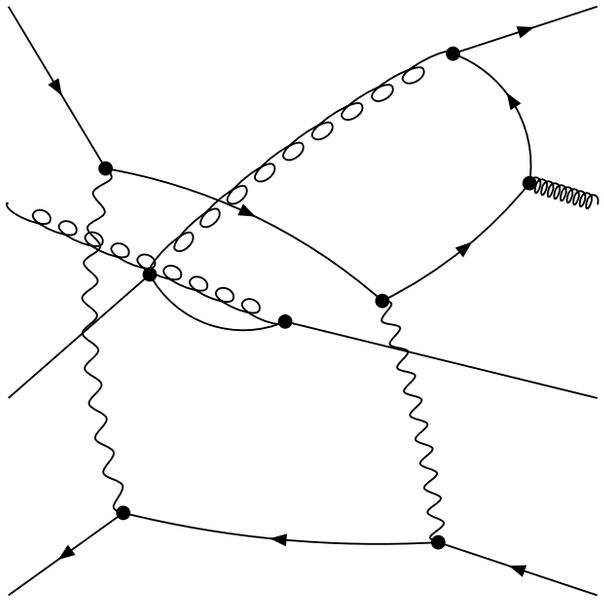
−1+10+14-18



−1+10+14-20



−1+10+13-20



−1+10+13-18

embedding 27 [1, 1, −1, −1, 0]

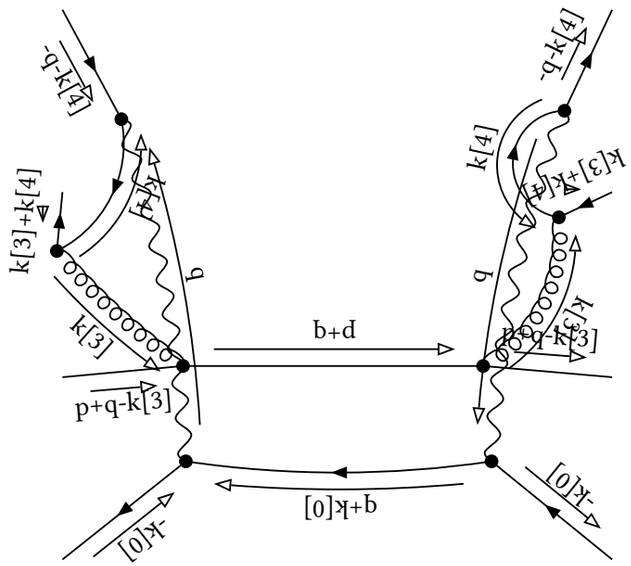
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+q]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]]^-1
```

Partial Fractioned Denominator:

```
(dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]]^-1 dot[q,q]^-2
```

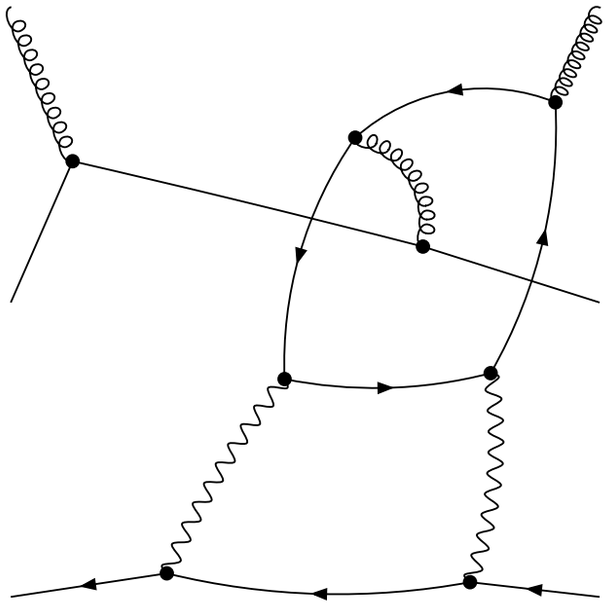


−3+9+16-22

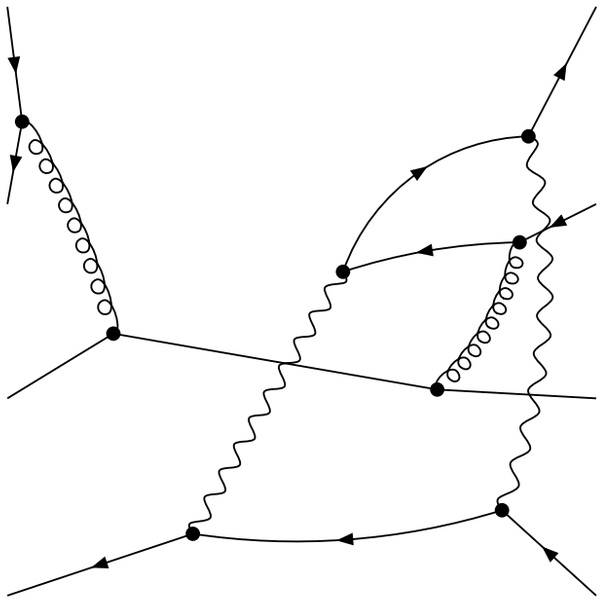
final

Denominator:

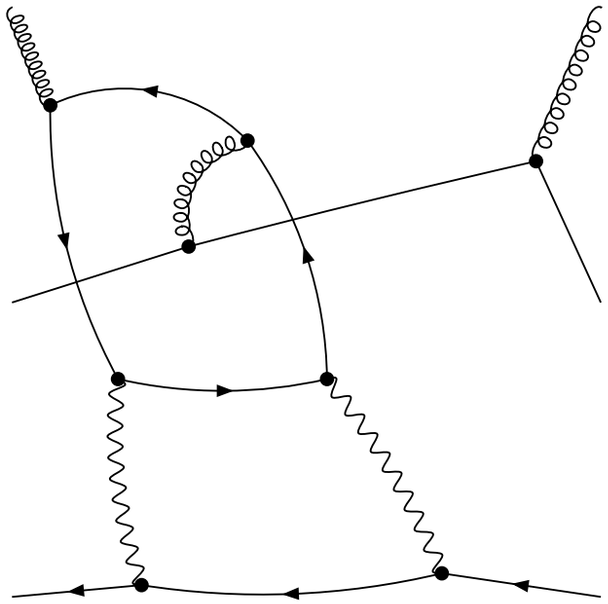
```
prop[0,p]^-1 prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[3]]^-1
```



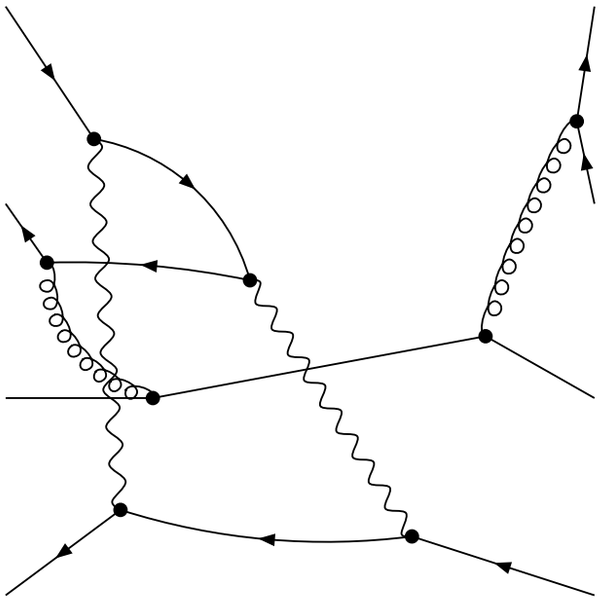
−1+9+13



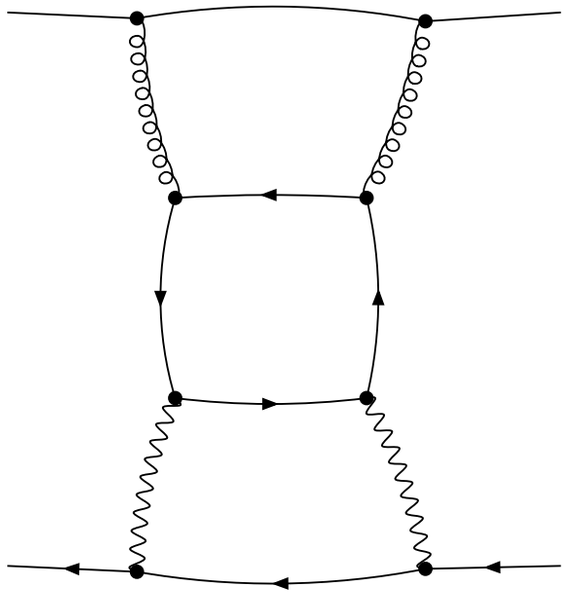
−1+9+16-20



−1+9+14



−1+9+16-18



−1+10

embedding 28 [1, 1, −1, −1, 1]

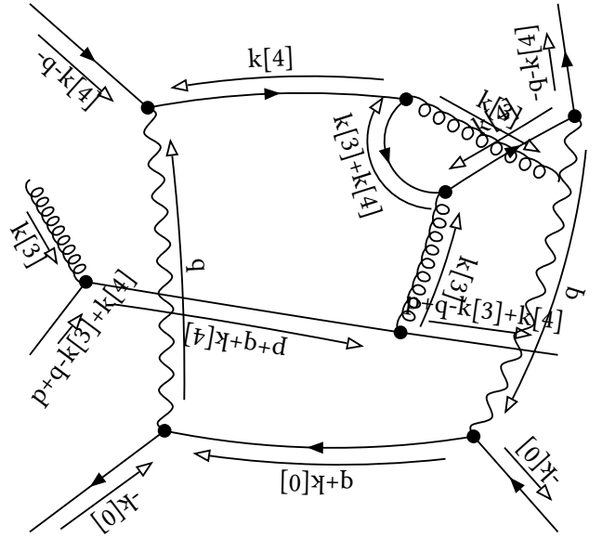
initial

Denominator:

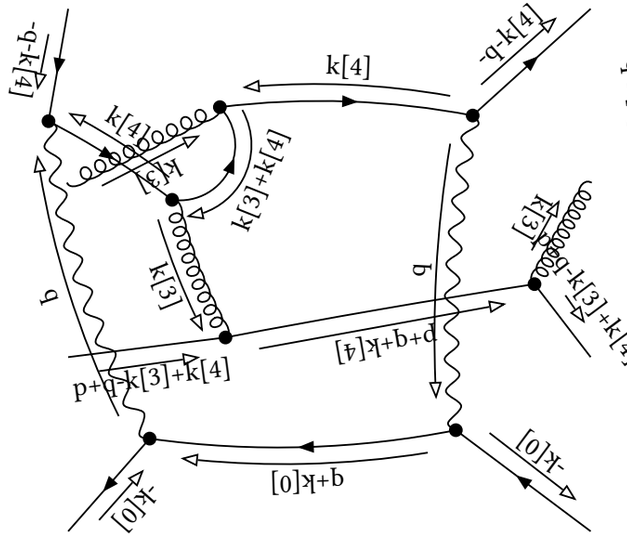
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+q+k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]+k[4]]^-1
```

Partial Fractioned Denominator:

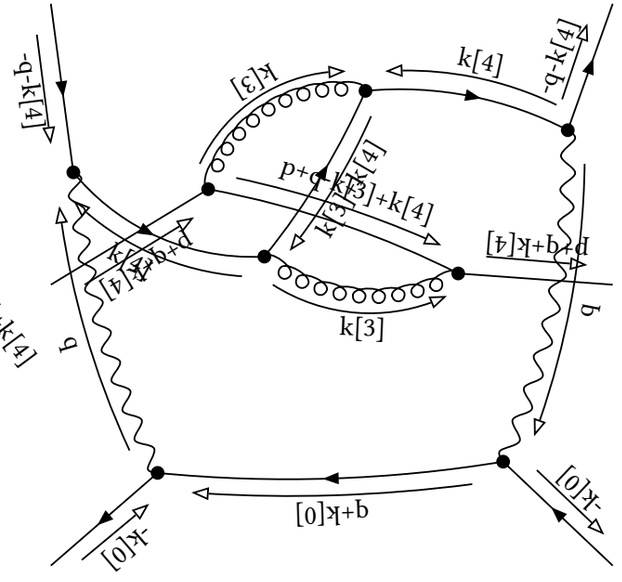
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+q+k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q-k[3]+k[4]]^-1 dot[q,q]^-2
```



−3+9+13-22



−3+9+14-22

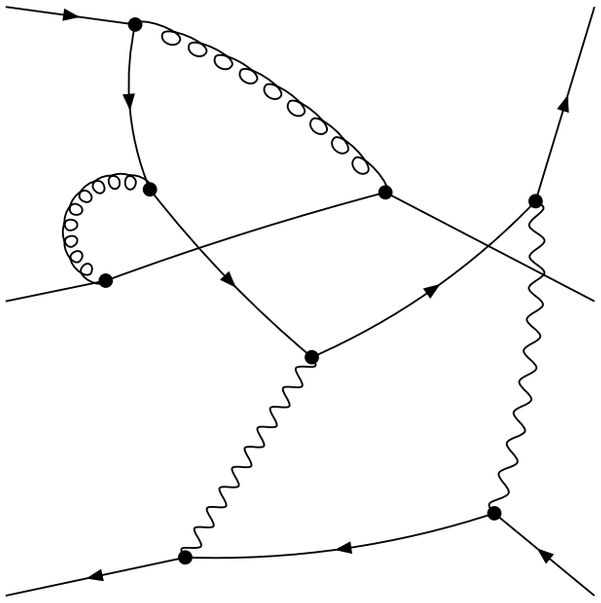


−3+10-22

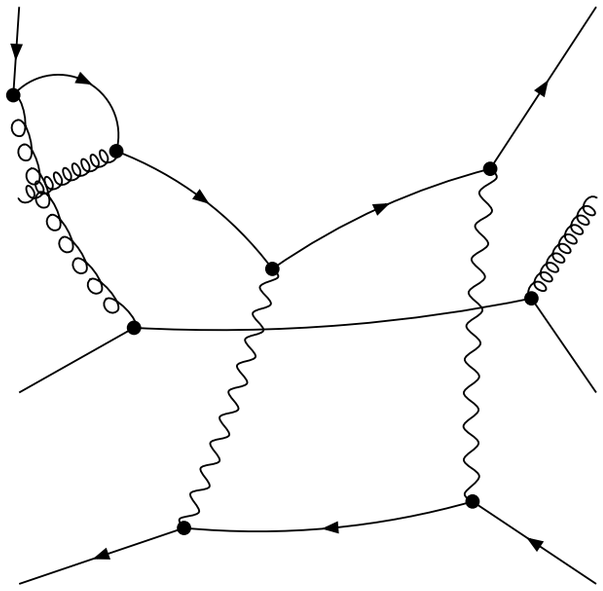
final

Denominator:

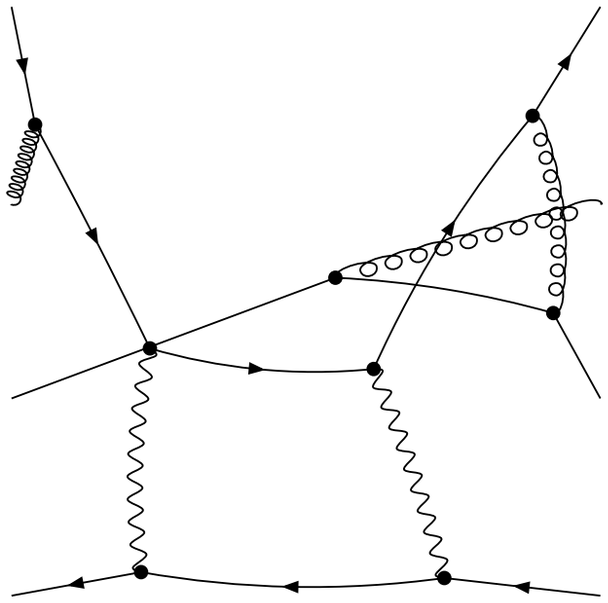
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p-k[3]+k[4]]^-1
```



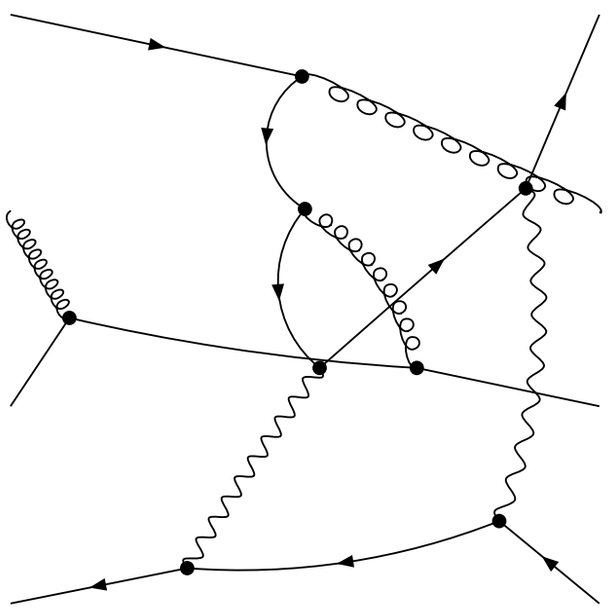
−1+10-20



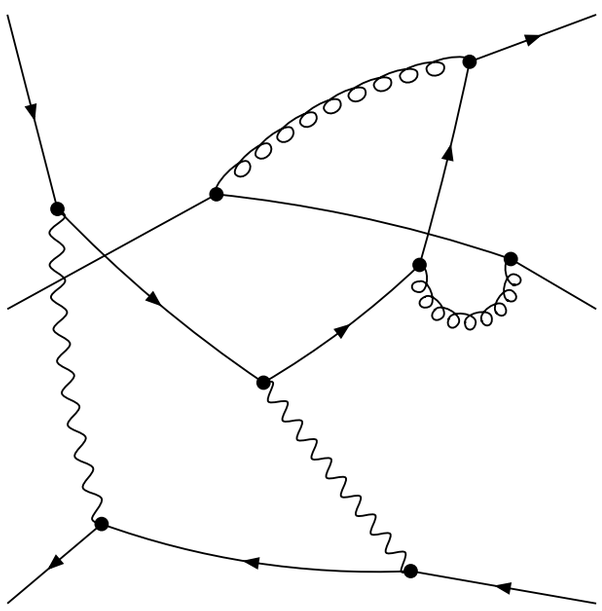
−1+9+14-20



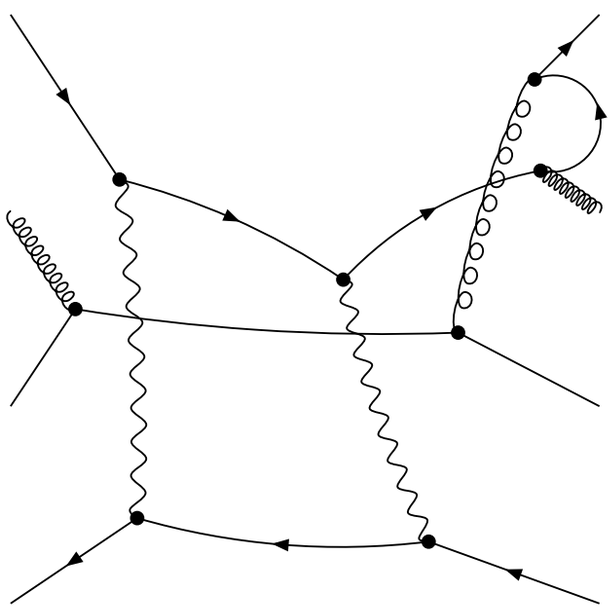
−1+10+14-16



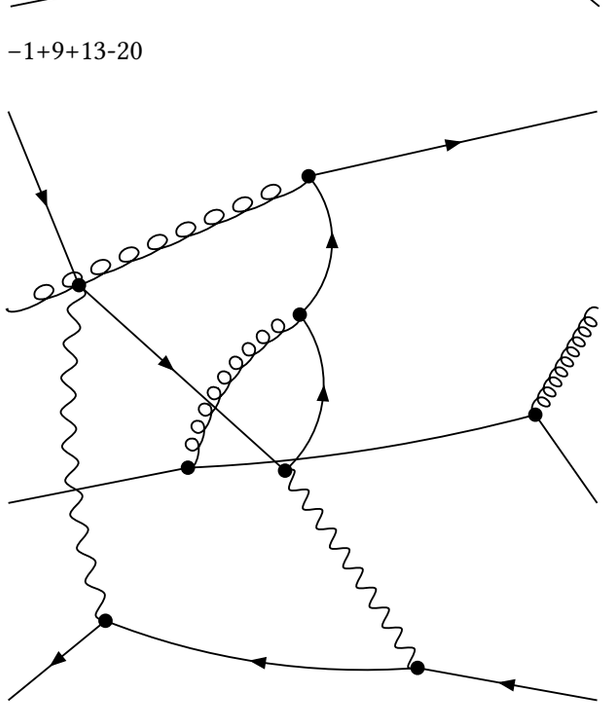
−1+9+13-20



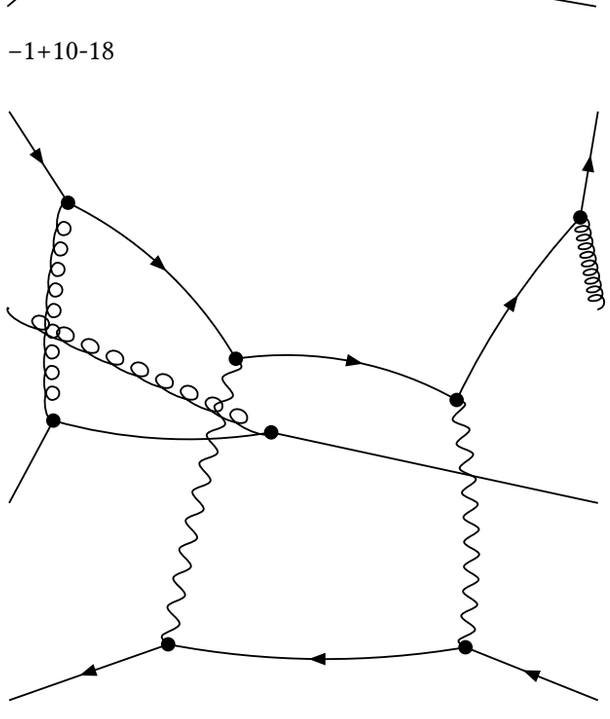
−1+10-18



−1+9+13-18



−1+9+14-18



−1+10+13-16

embedding 29 [1, 1, −1, 0, 1]

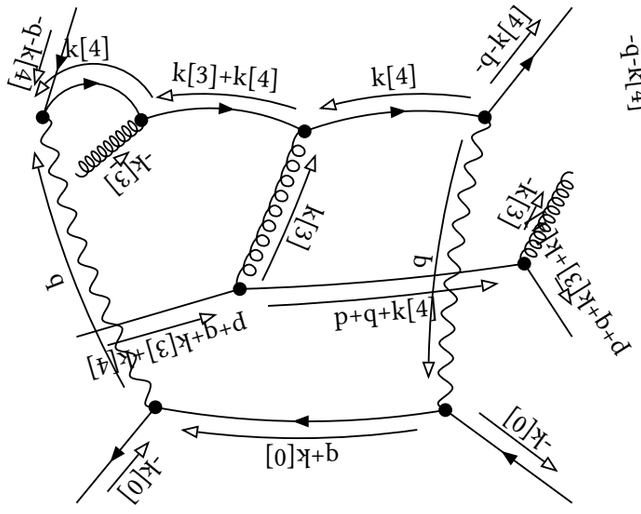
initial

Denominator:

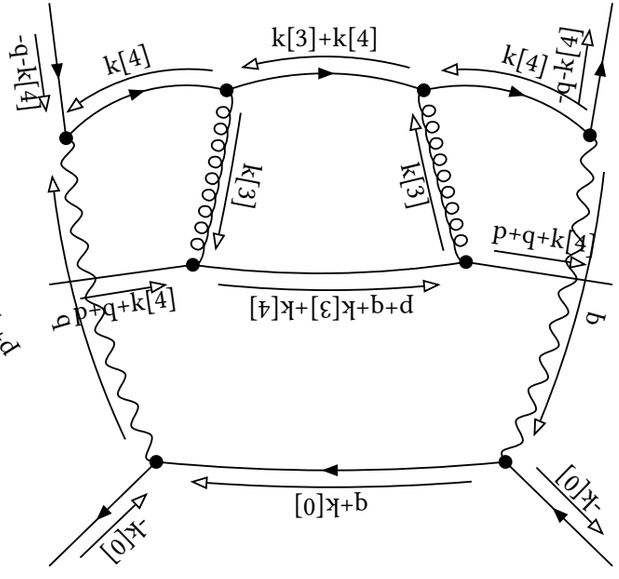
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+q+k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q+k[3]+k[4]]^-1
```

Partial Fractioned Denominator:

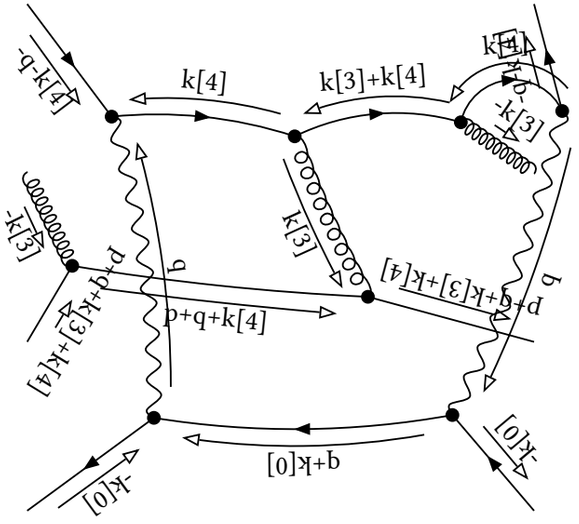
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+q+k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q+k[3]+k[4]]^-1 dot[q,q]^-2
```



−3+10-13-22



−3+9-22

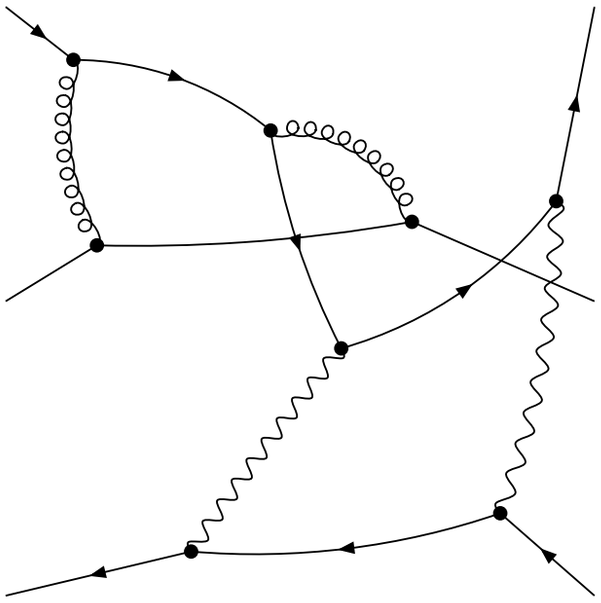


−3+10-14-22

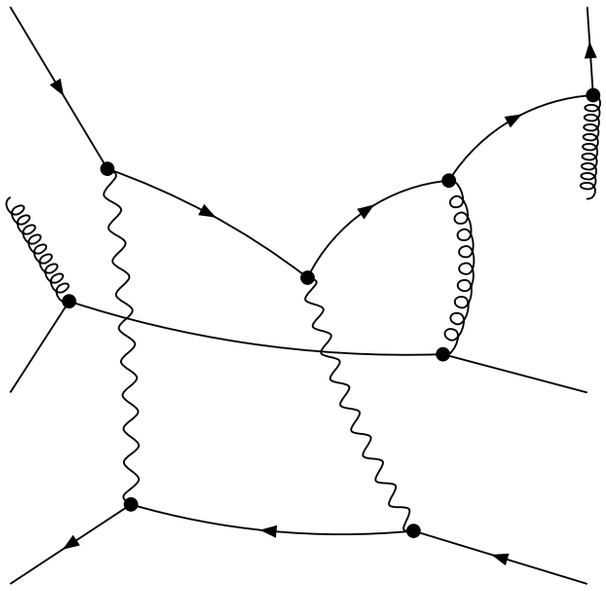
final

Denominator:

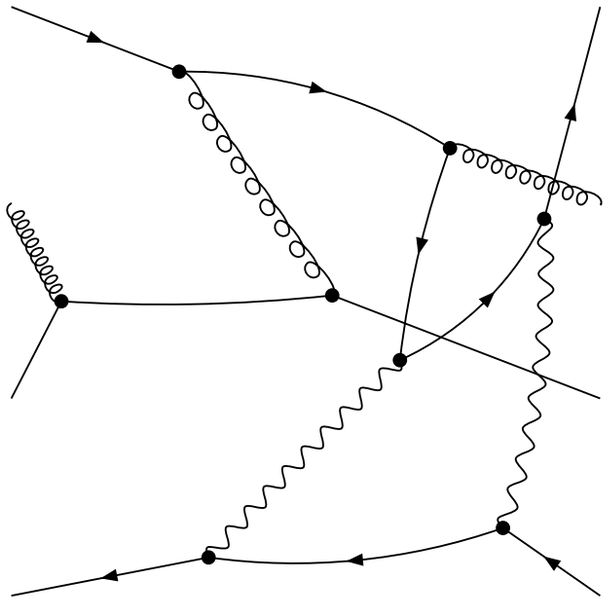
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,p+k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+k[3]+k[4]]^-1
```



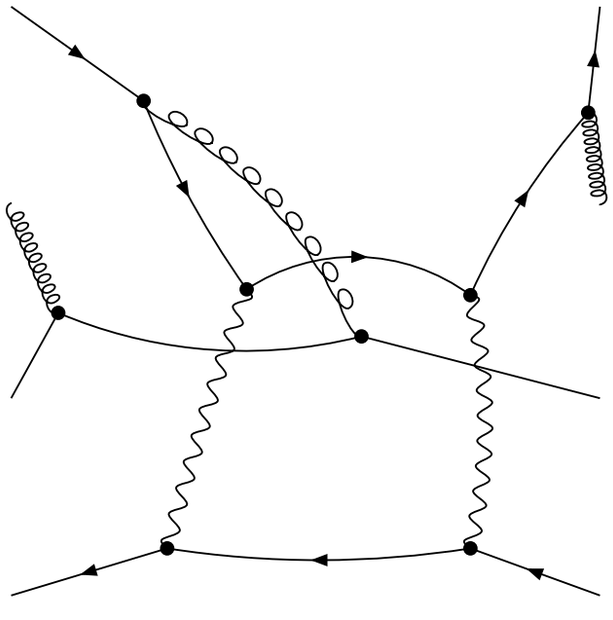
−1+9-20



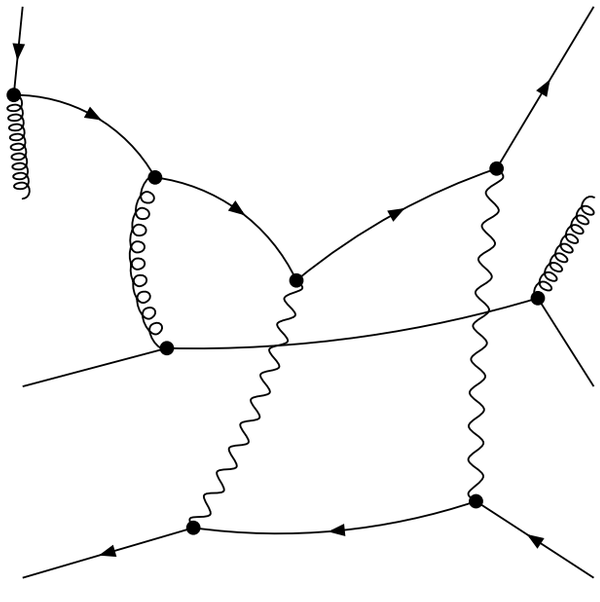
−1+10-14-18



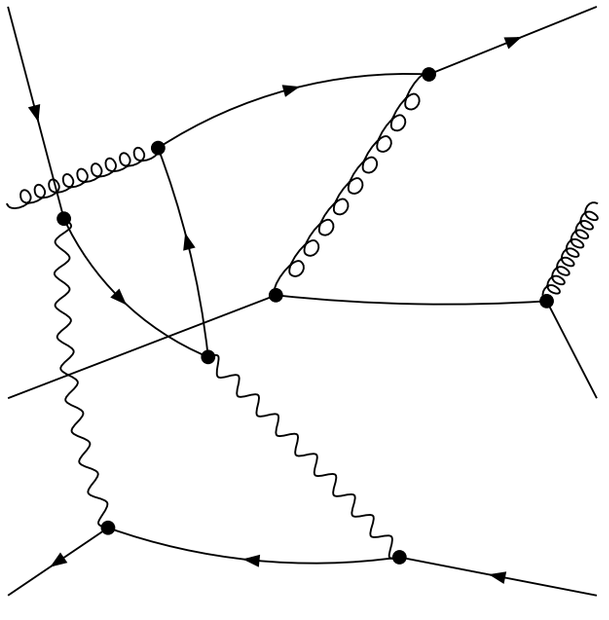
−1+10-14-20



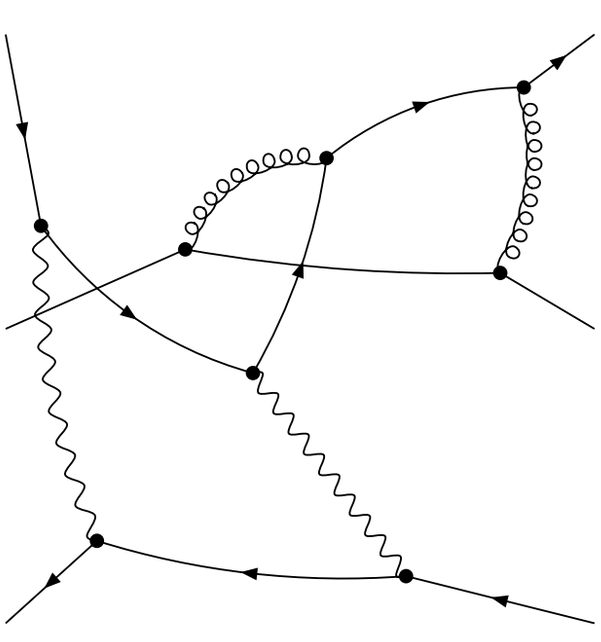
−1+9+13-16



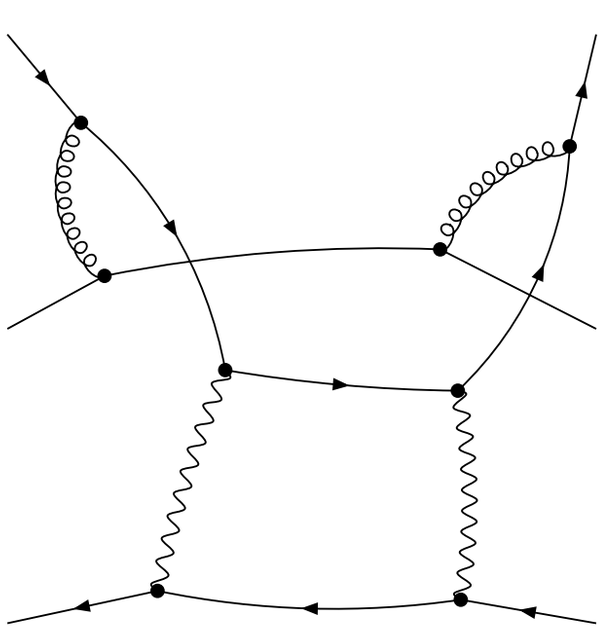
−1+10-13-20



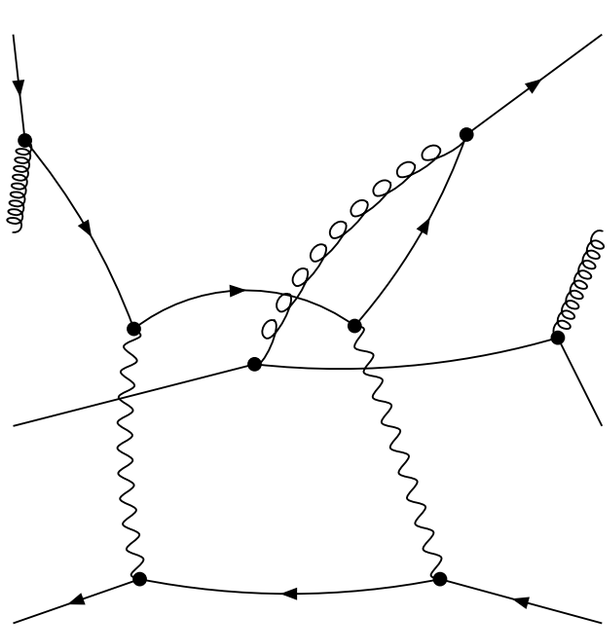
−1+10-13-18



−1+9-18



−1+10-16



−1+9+14-16

embedding 30 [1, 1, −1, 0, 2]

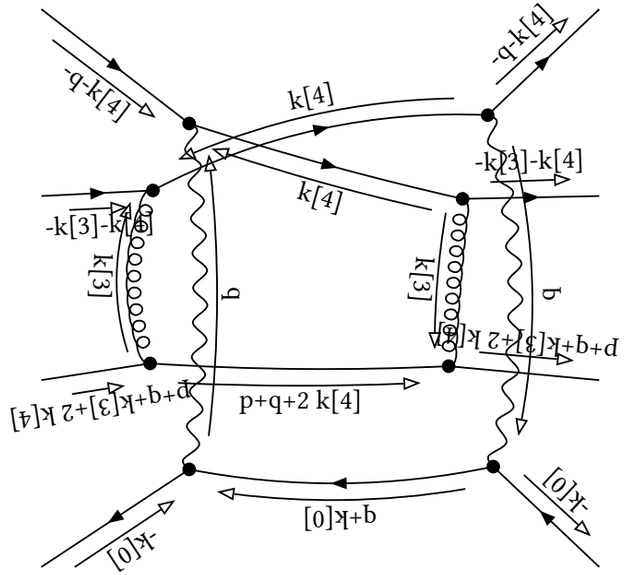
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q+2 k[4]]^-1 prop[0,p+q+k[3]+2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q+2 k[4]]^-1 prop[0,p+q+k[3]+2 k[4]]^-1 dot[q,q]^-2
```

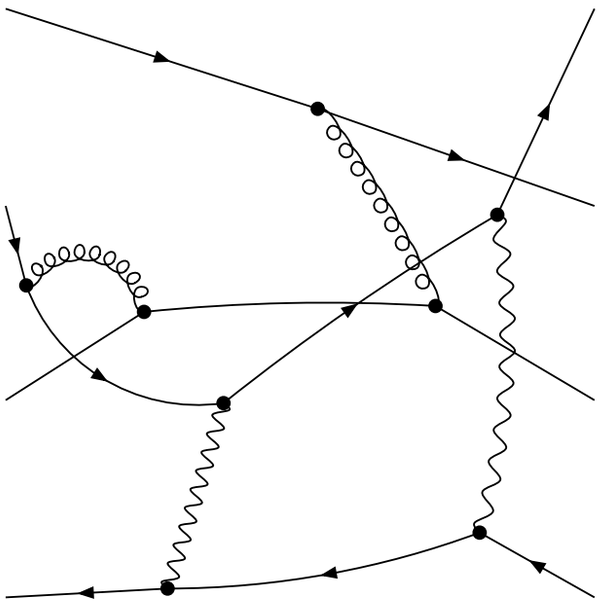


−3+10-16-22

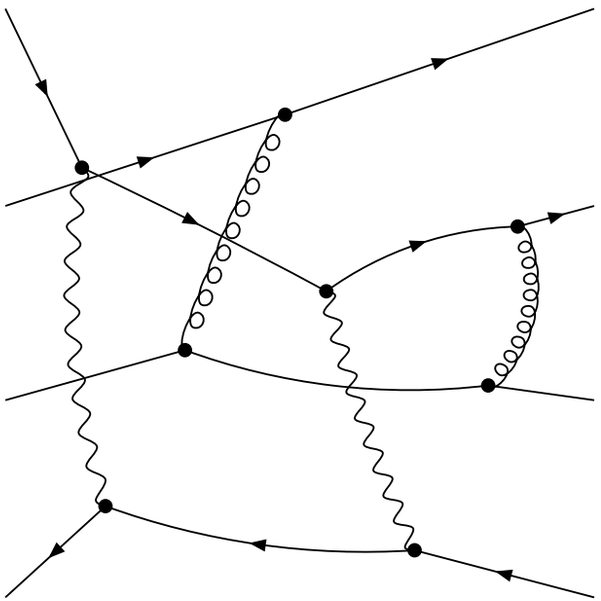
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+2 k[4]]^-1 prop[0,p+k[3]+2 k[4]]^-1
```



−1+10-16-20



−1+10-16-18

embedding 31 [1, 1, −1, 1, 1]

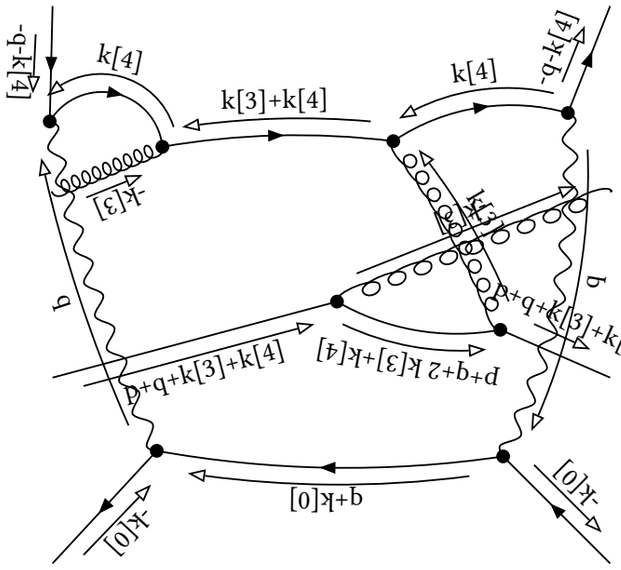
initial

Denominator:

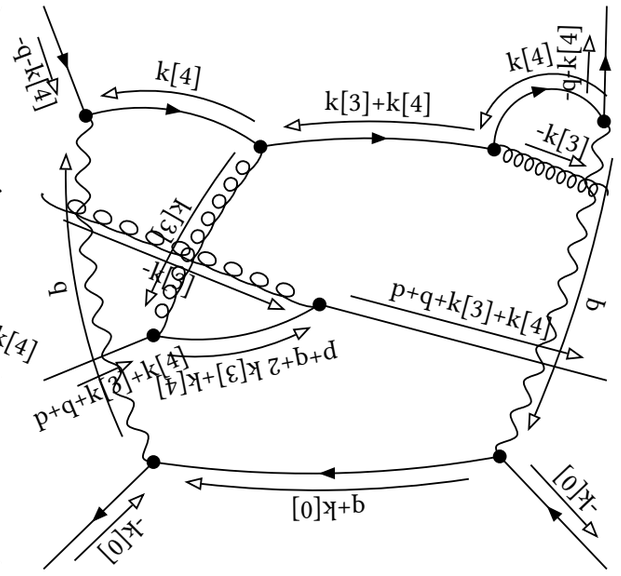
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q+k[3]+k[4]]^-1 prop[0,p+q+2 k[3]+k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q+k[3]+k[4]]^-1 prop[0,p+q+2 k[3]+k[4]]^-1 dot[q,q]^-2
```



−3+9-13-22

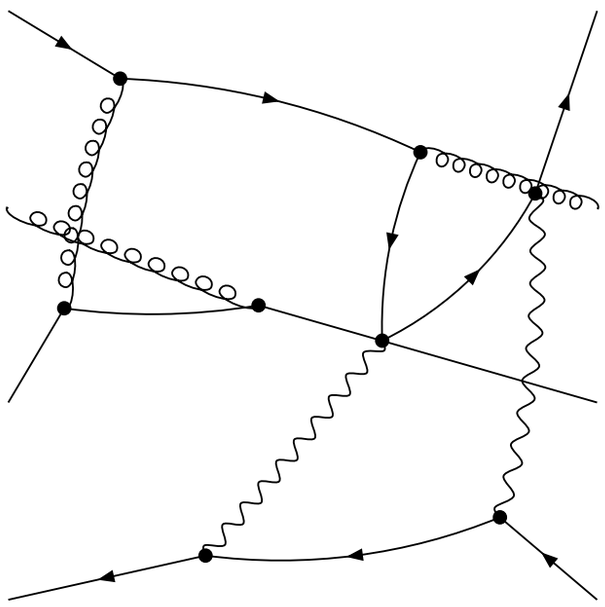


−3+9-14-22

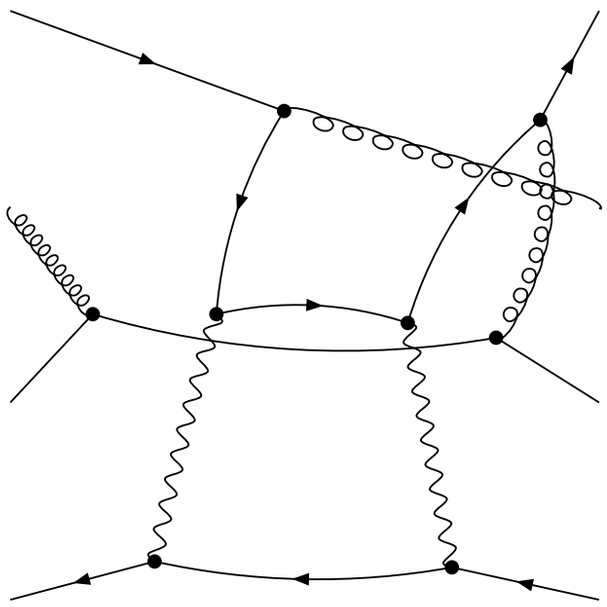
final

Denominator:

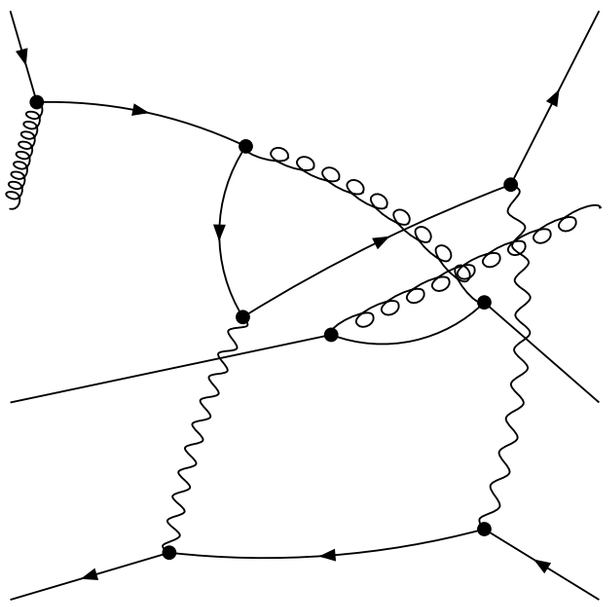
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+k[3]+k[4]]^-1 prop[0,p+2 k[3]+k[4]]^-1
```



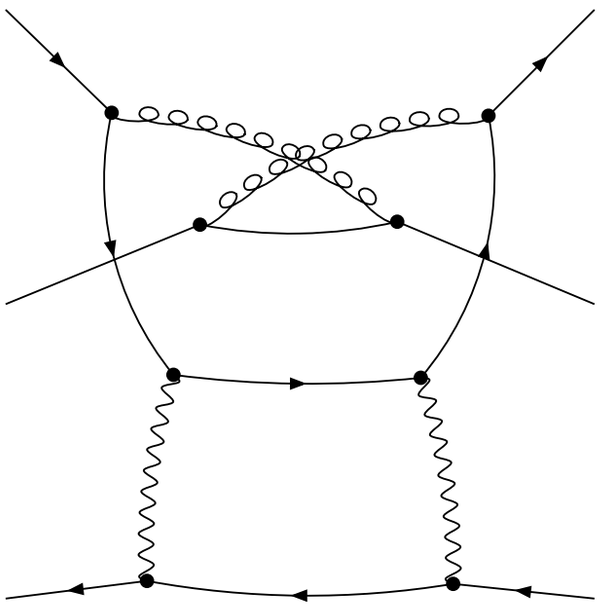
−1+9-14-20



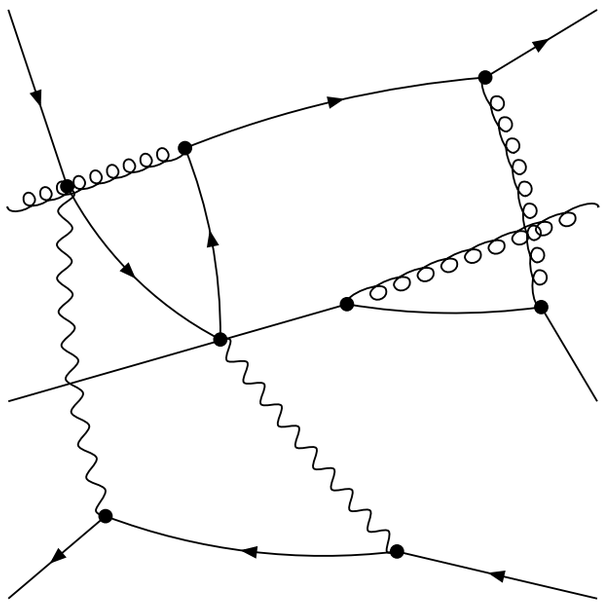
−1+10-14-16



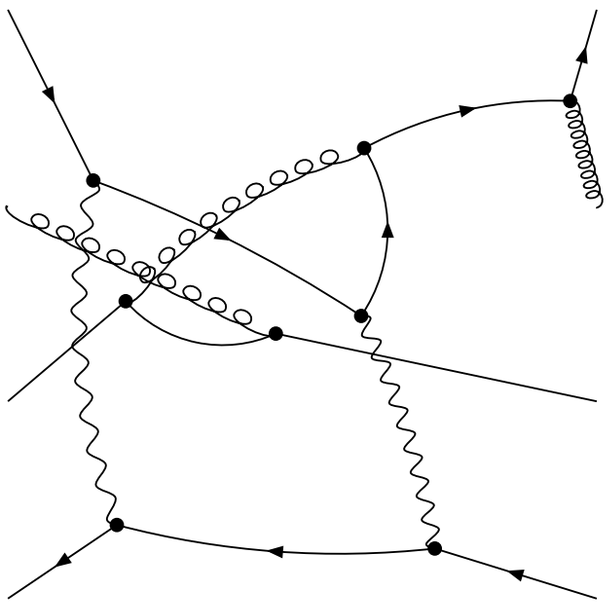
−1+9-13-20



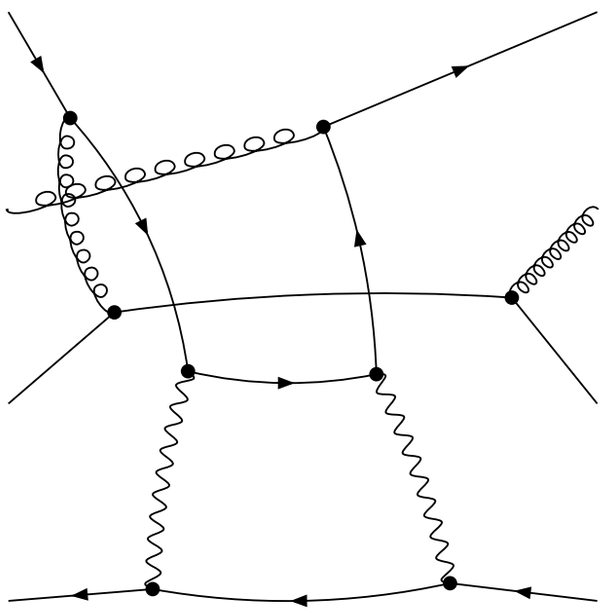
−1+9-16



−1+9-13-18



−1+9-14-18



−1+10-13-16

embedding 32 [1, 1, −1, 1, 2]

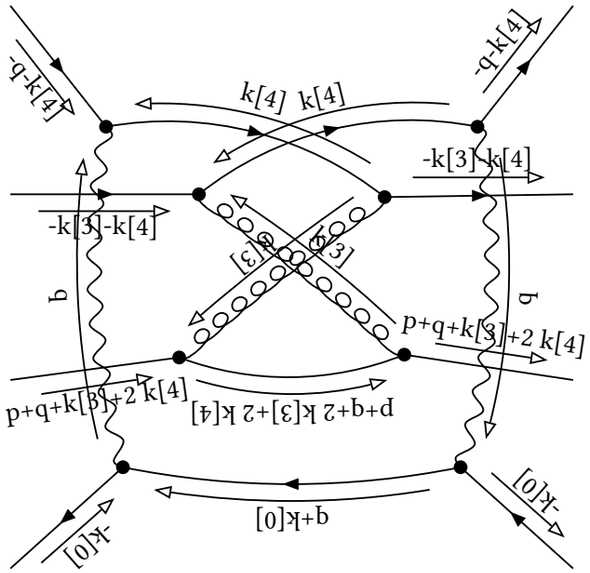
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q+k[3]+2 k[4]]^-1 prop[0,p+q+2 k[3]+2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+q+k[3]+2 k[4]]^-1 prop[0,p+q+2 k[3]+2 k[4]]^-1 dot[q,q]^-2
```

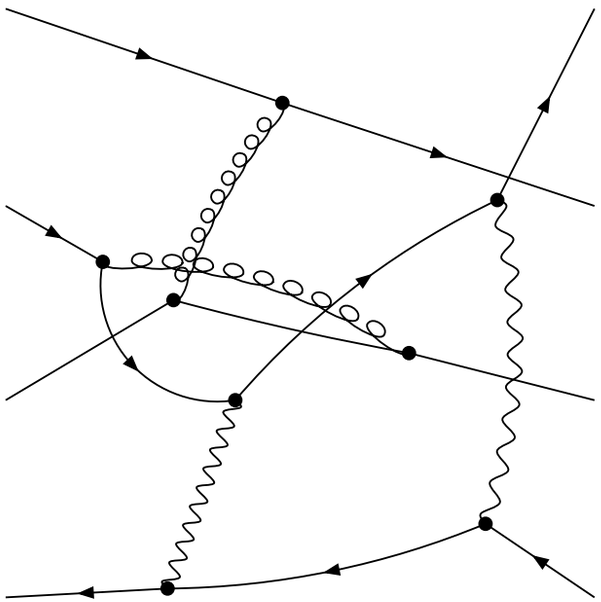


−3+9-16-22

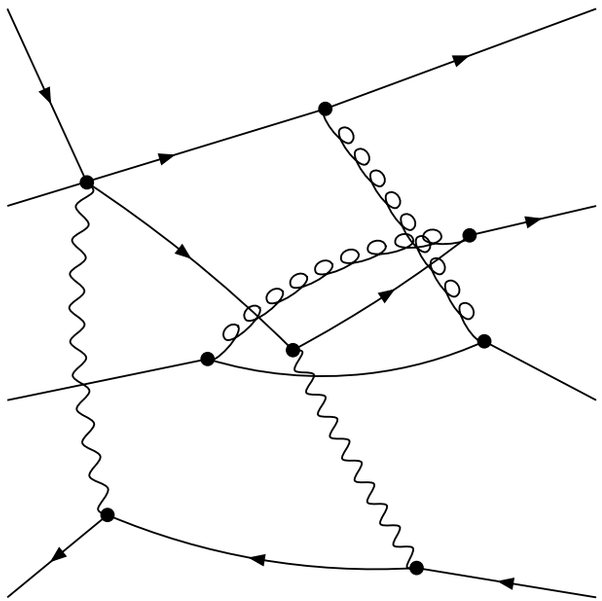
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,p+k[3]+2 k[4]]^-1 prop[0,p+2 k[3]+2 k[4]]^-1
```



−1+9-16-20



−1+9-16-18

embedding 33 [1, 1, 0, −1, 0]

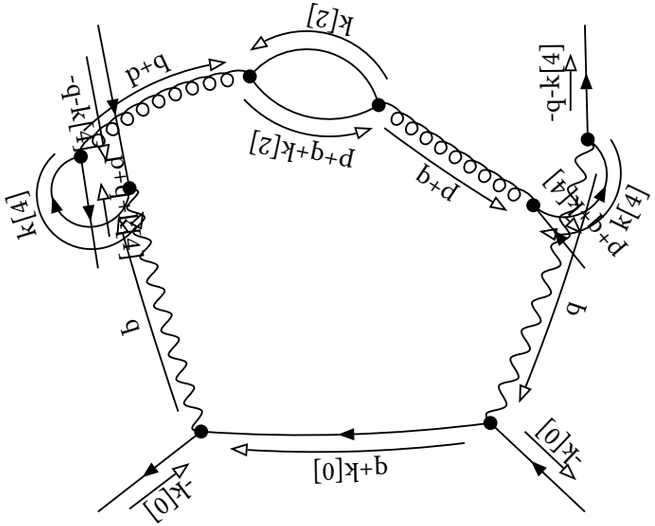
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p+q]^-2 prop[0,p+q+k[2]]^-1 prop[0,p+q+k[4]]^-1
```

Partial Fractioned Denominator:

```
(dot[p,p]+2 dot[p,q]+dot[q,q])^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p+q+k[2]]^-1 prop[0,p+q+k[4]]^-1 dot[q,q]^-2
```

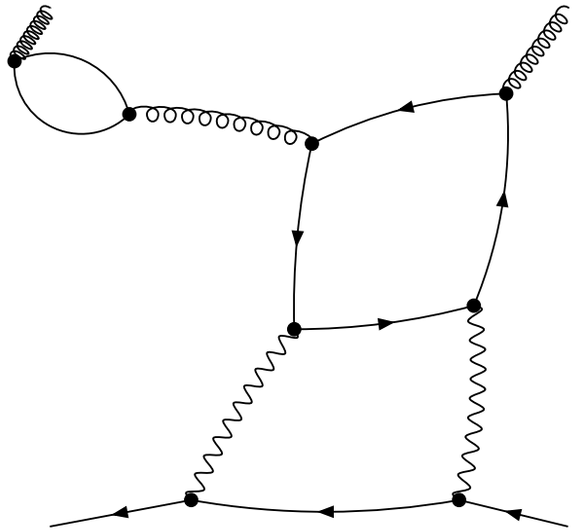


−3+16-22

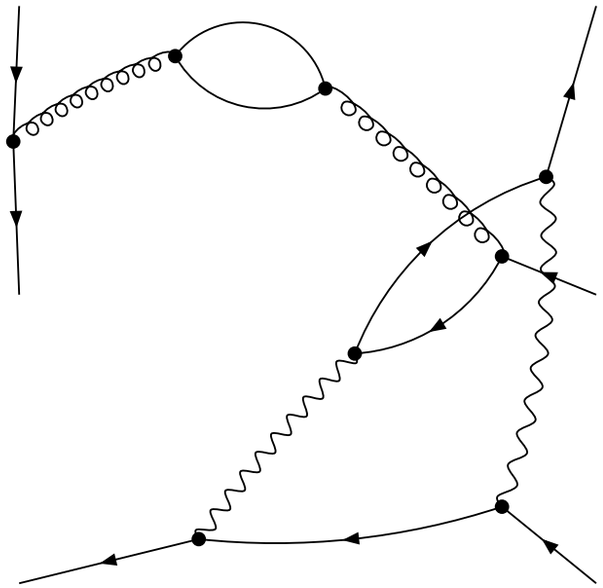
final

Denominator:

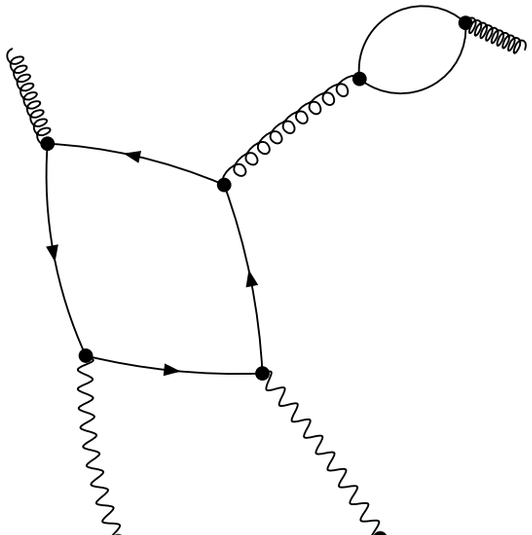
```
prop[0,p]^-2 prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p+k[2]]^-1 prop[0,p+k[4]]^-1
```



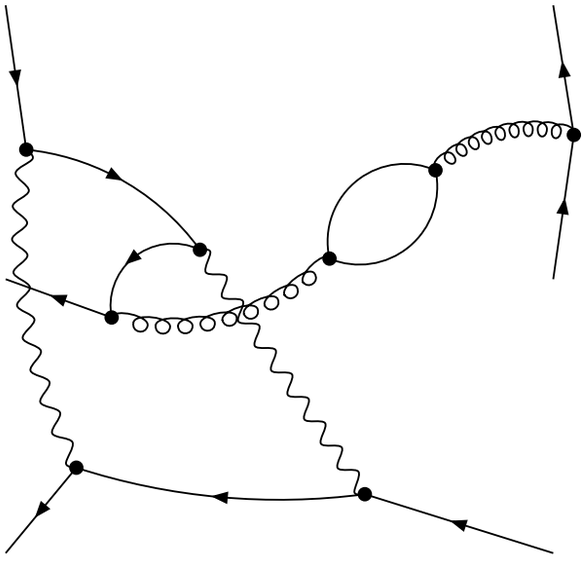
−1+13



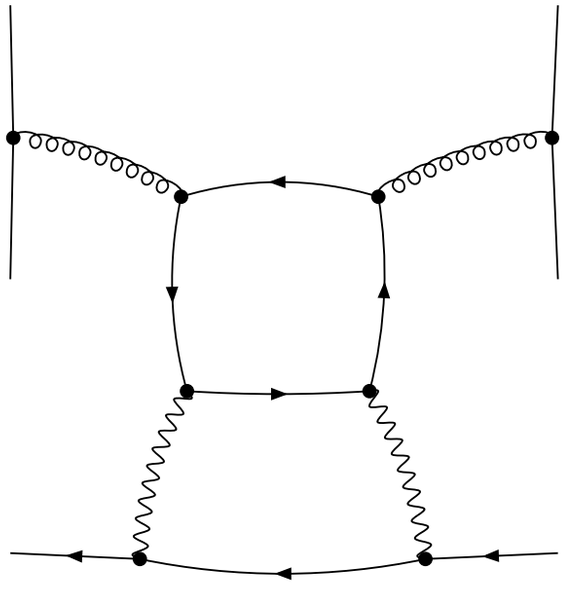
−1+16-20



−1+14



−1+16-18



−1-9+10

embedding 34 [1, 1, 0, −1, 1]

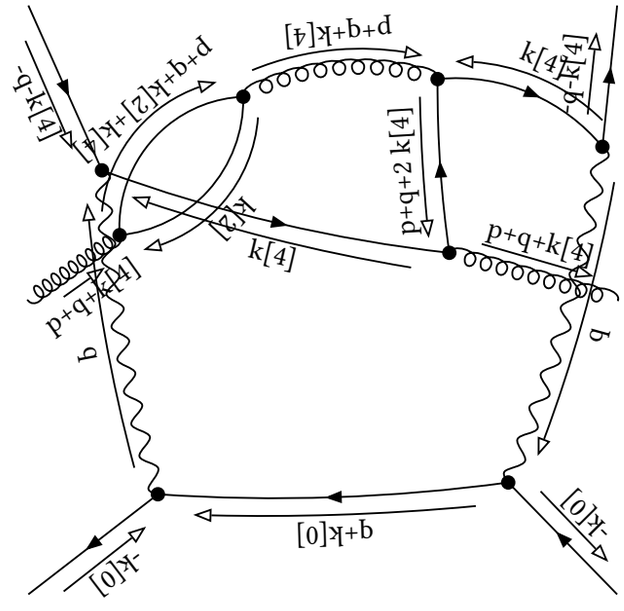
initial

Denominator:

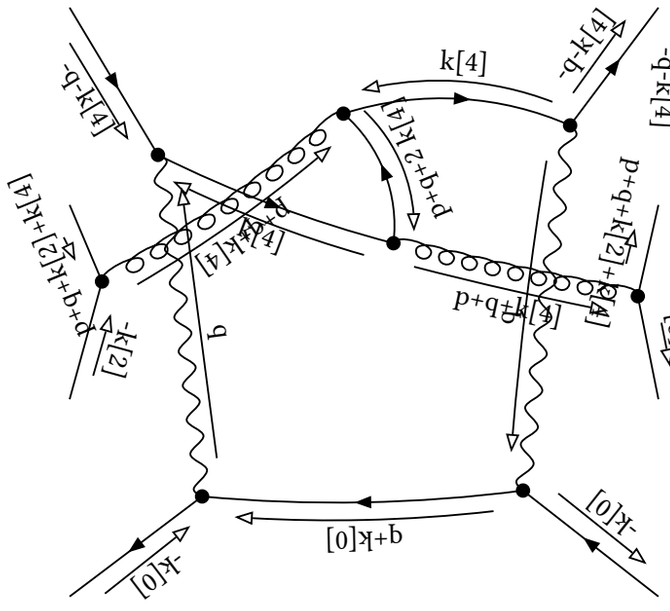
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p+q+k[4]]^-2 prop[0,p+q+2 k[4]]^-1 prop[0,p+q+k[2]+k[4]]^-1
```

Partial Fractioned Denominator:

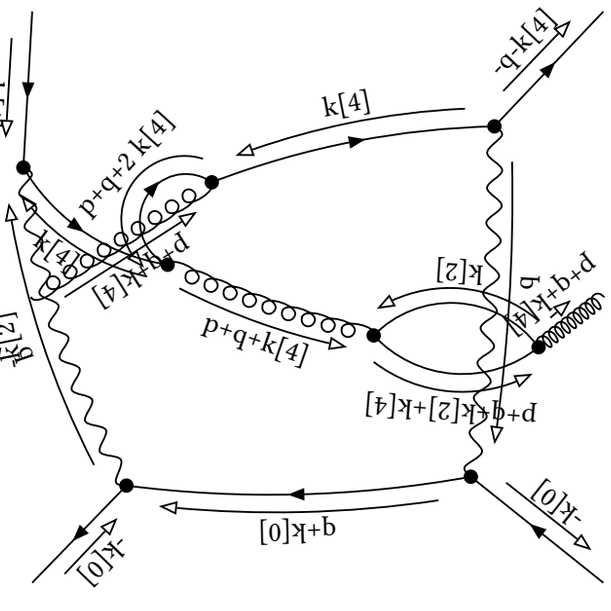
```
-1/2 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p+q+k[4]]^-1 prop[0,p+q+k[2]+k[4]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p+q+2 k[4]]^-1 prop[0,p+q+k[2]+k[4]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[2]]^-1 prop[0,p+q+k[4]]^-1 prop[0,p+q+2 k[4]]^-1 prop[0,p+q+k[2]+k[4]]^-1 dot[q,q]^-2
  -1/2 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p+q+k[4]]^-2 prop[0,p+q+k[2]+k[4]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[2]]^-1 prop[0,p+q+k[4]]^-2 prop[0,p+q+2 k[4]]^-1 prop[0,p+q+k[2]+k[4]]^-1 dot[q,q]^-2
```



−3+13-22



−3-9+10-22

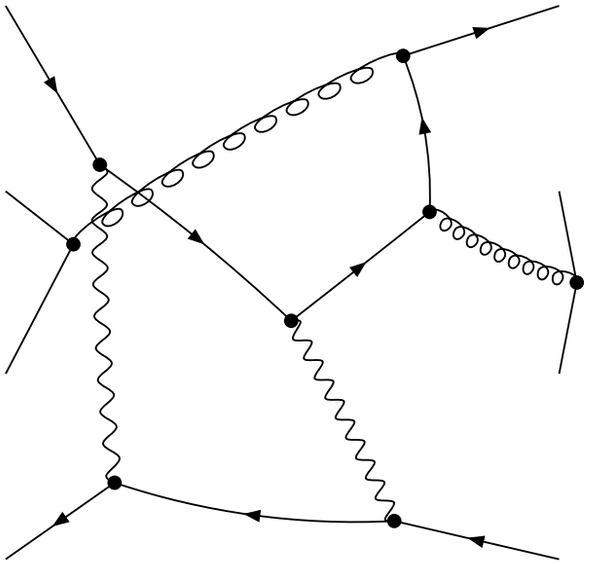


−3+14-22

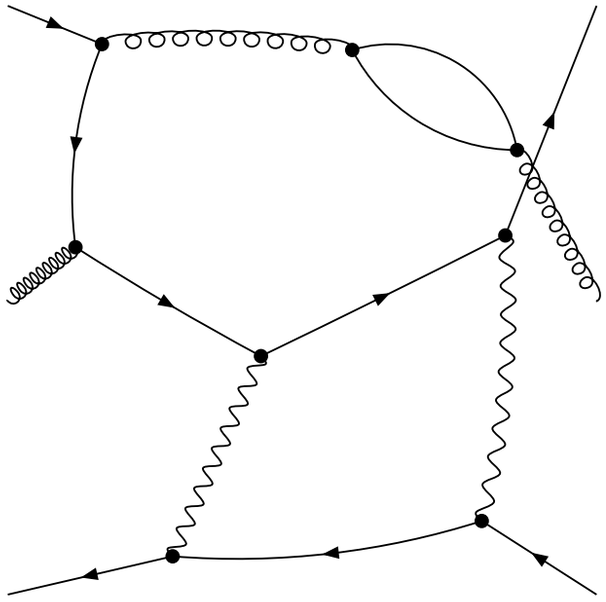
final

Denominator:

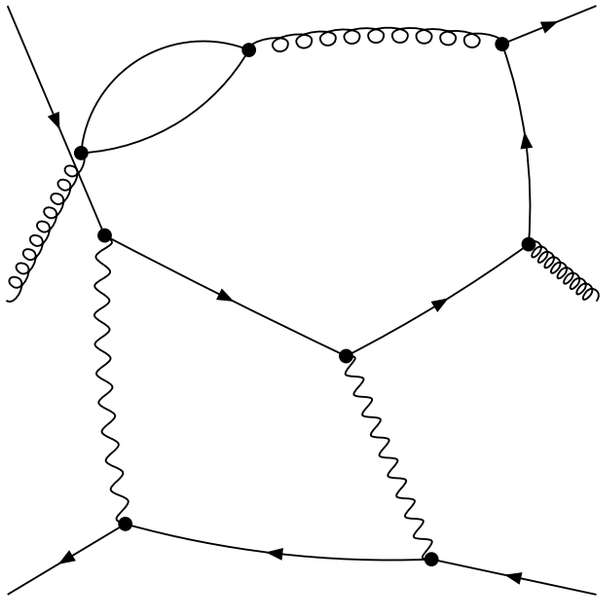
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,p+k[4]]^-2 prop[0,p+2 k[4]]^-1 prop[0,p+k[2]+k[4]]^-1
```



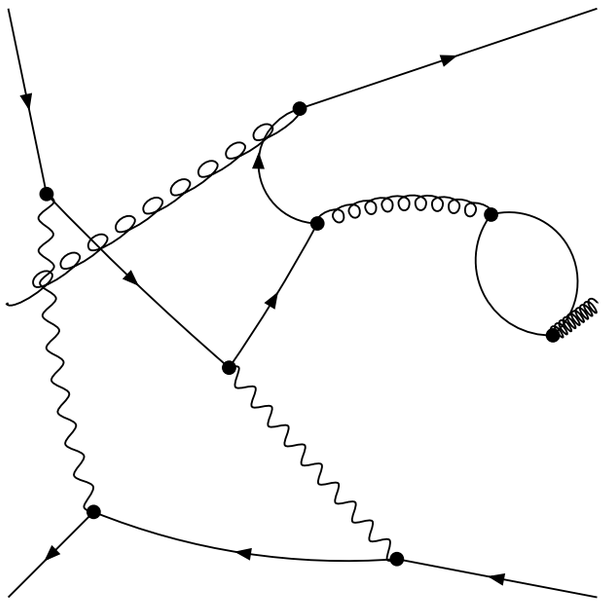
−1-9+10-18



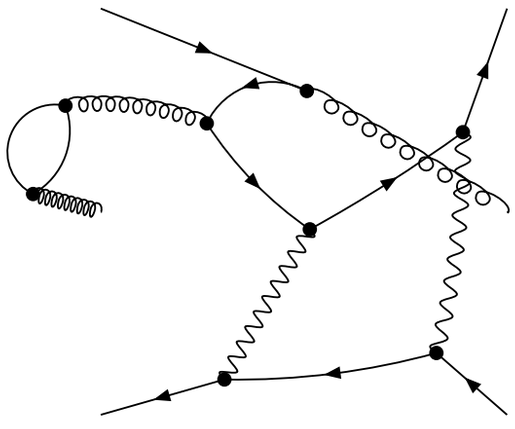
−1+14-20



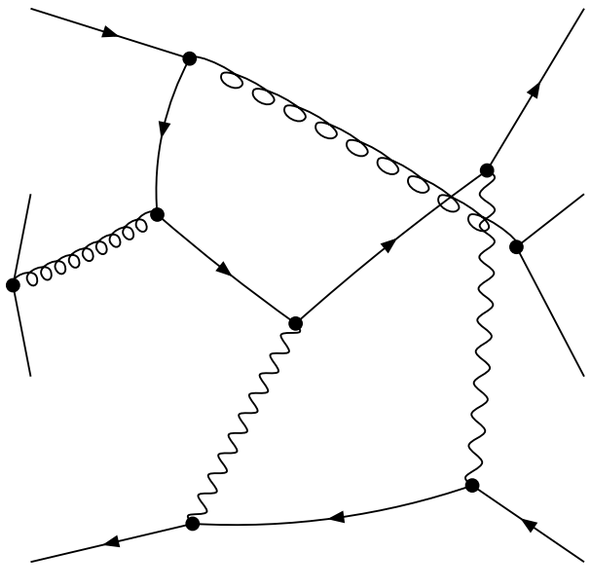
−1+13-18



−1+14-18



−1+13-20



−1-9+10-20

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

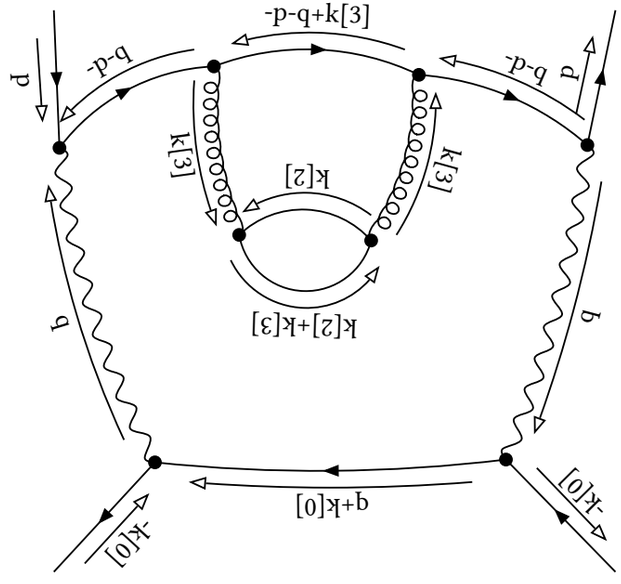
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[3]]^-2 prop[0,k[2]+k[3]]^-1 prop[0,-p-q]^-1 prop[0,-p-q+k[3]]^-1
```

Partial Fractioned Denominator:

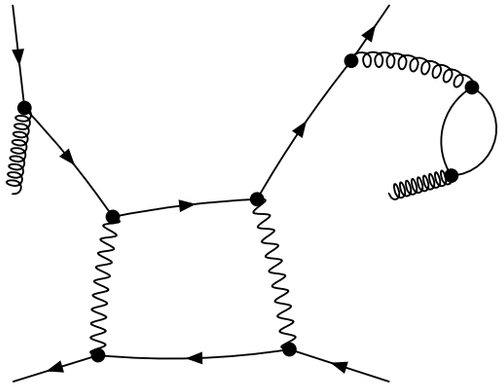
```
(dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[2]]^-1 prop[0,k[3]]^-2 prop[0,k[2]+k[3]]^-1 prop[0,-p-q+k[3]]^-1 dot[q,q]^-2
```



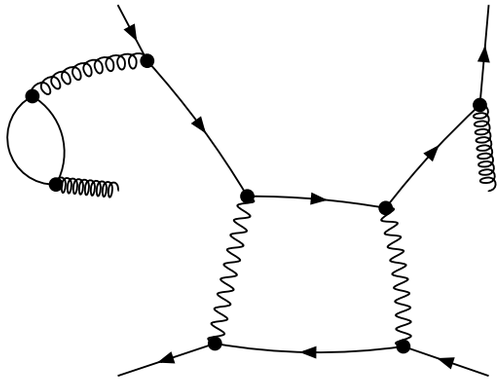
final

Denominator:

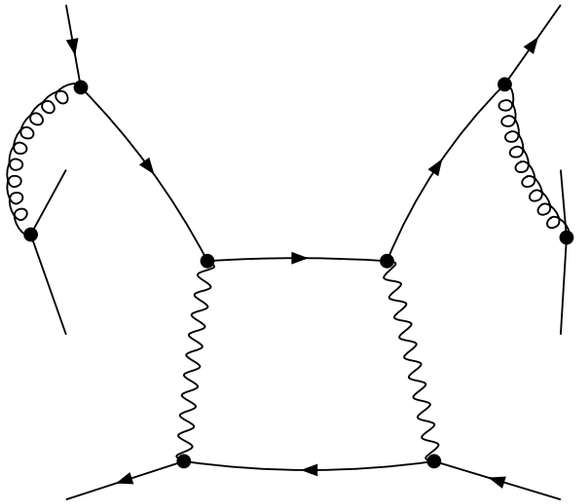
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[3]]^-2 prop[0,-p]^-1 prop[0,k[2]+k[3]]^-1 prop[0,-p+k[3]]^-1
```



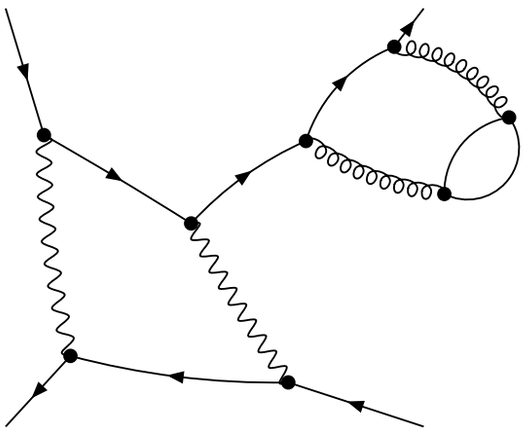
−1+14-16



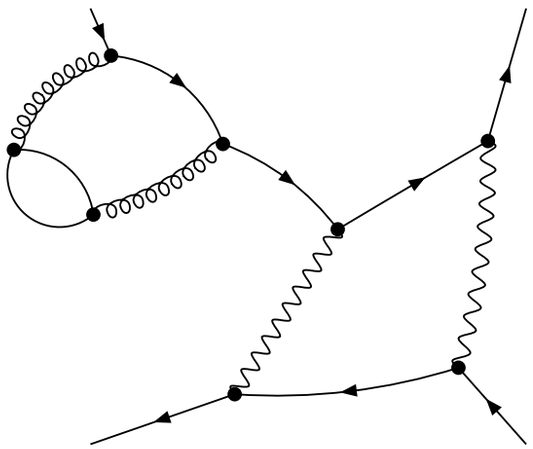
−1+13-16



−1-9+10-16



−1-18



−1-20

embedding 36 [1, 1, 0, 1, 1]

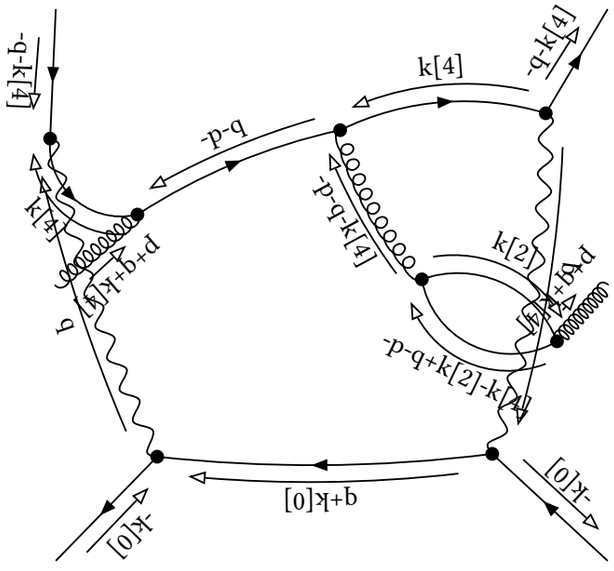
initial

Denominator:

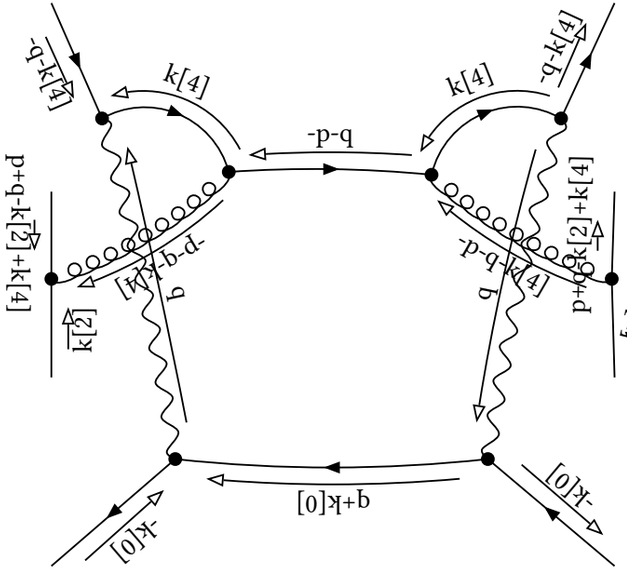
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p-q]^-1 prop[0,-p-q-k[4]]^-2 prop[0,-p-q+k[2]-k[4]]^-1
```

Partial Fractioned Denominator:

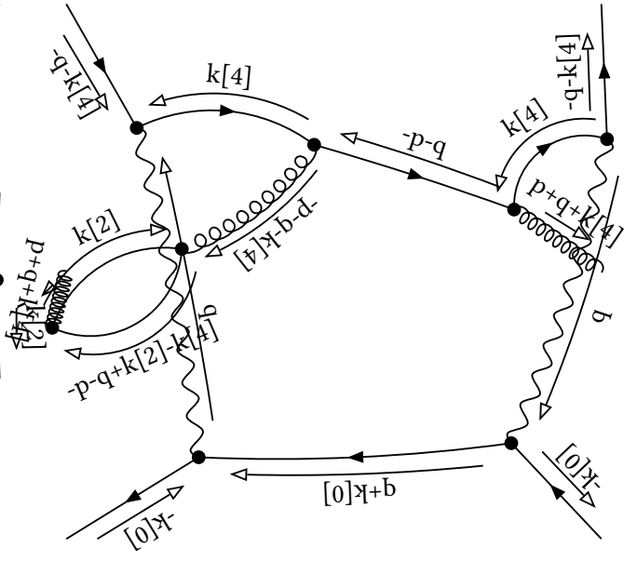
```
(dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p-q-k[4]]^-2 prop[0,-p-q+k[2]-k[4]]^-1 dot[q,q]^-2
```



−3-13-22



−3+9-10-22

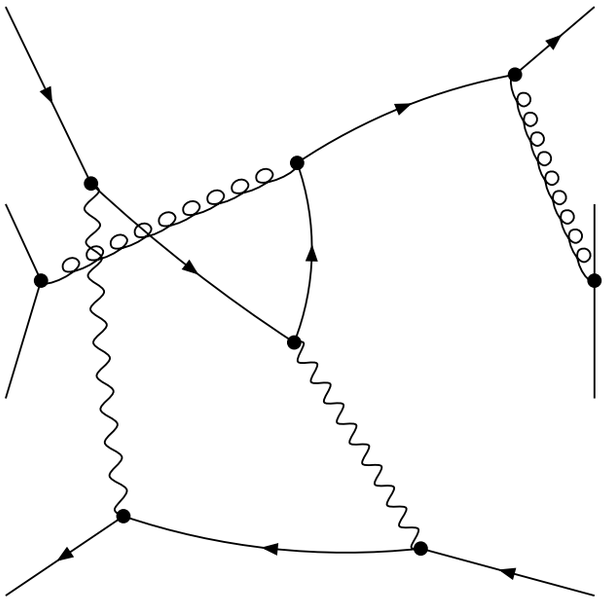


−3-14-22

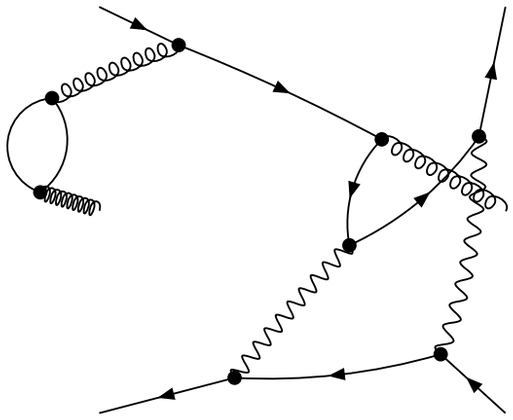
final

Denominator:

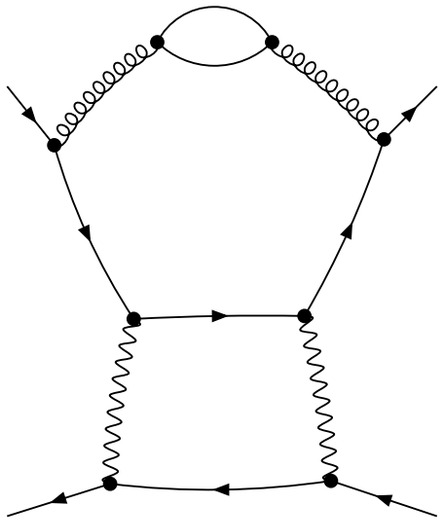
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p]^-1 prop[0,-p-k[4]]^-2 prop[0,-p+k[2]-k[4]]^-1
```



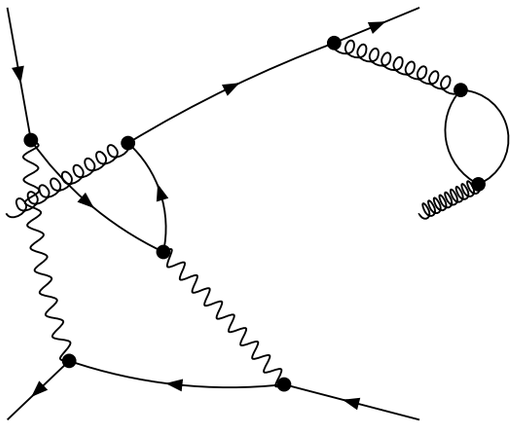
−1+9-10-18



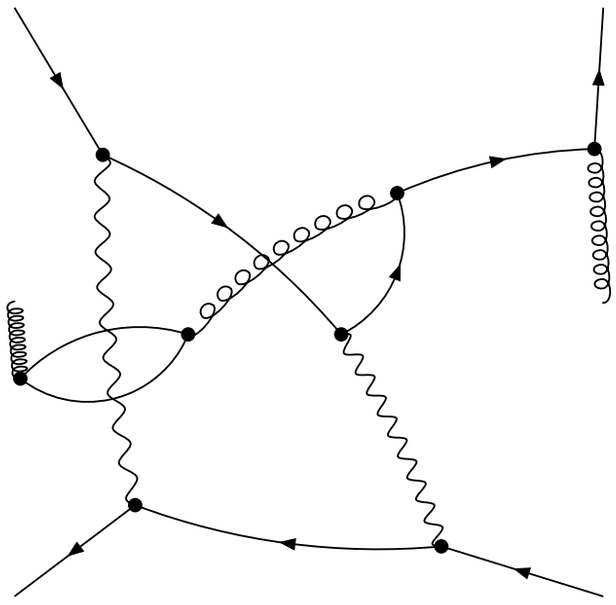
−1-14-20



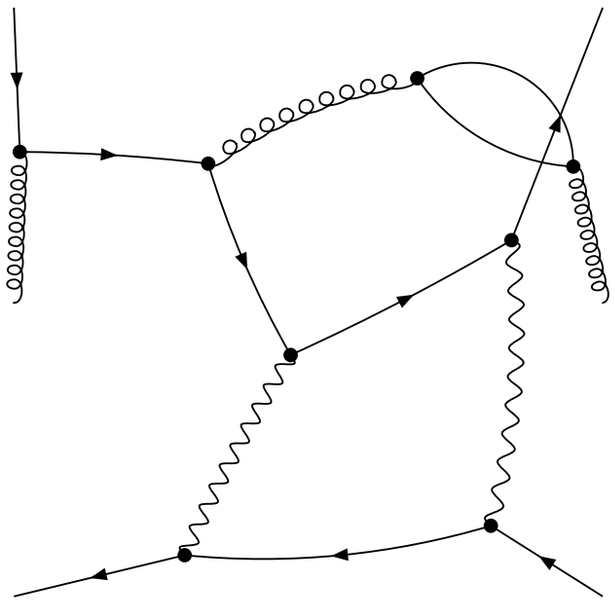
−1-16



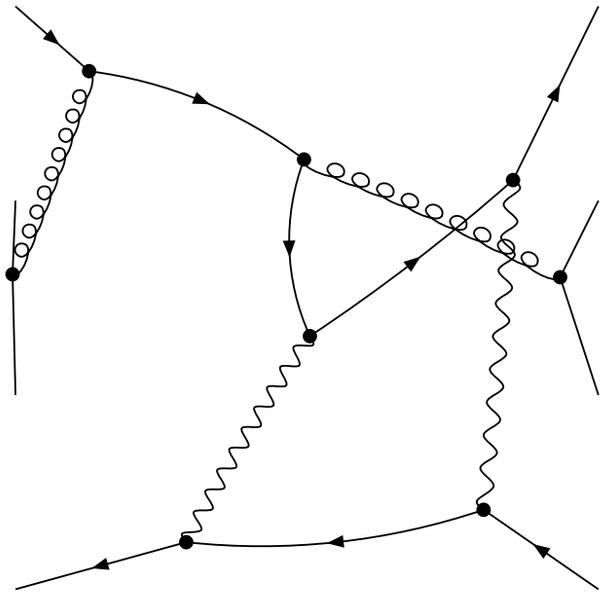
−1-13-18



−1-14-18



−1-13-20



−1+9-10-20

embedding 37 [1, 1, 0, 1, 2]

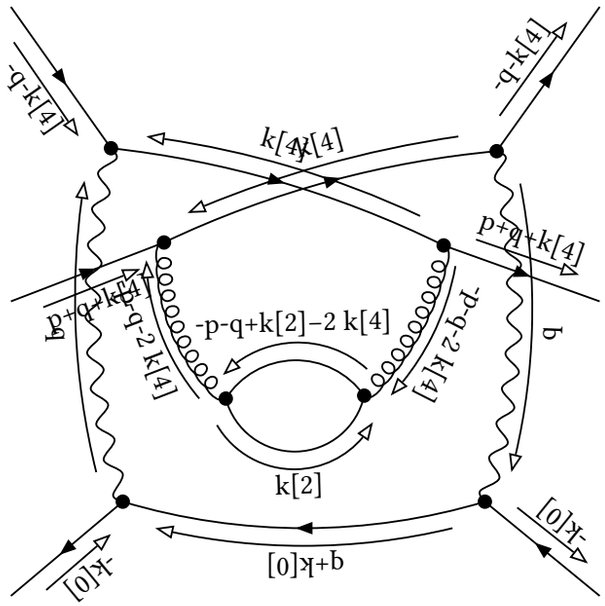
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p-q-k[4]]^-1 prop[0,-p-q-2 k[4]]^-2 prop[0,-p-q+k[2]-2 k[4]]^-1
```

Partial Fractioned Denominator:

```
1/4 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p-q-k[4]]^-1 prop[0,-p-q+k[2]-2 k[4]]^-1 dot[q,q]^-2
  -1/2 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p-q-2 k[4]]^-1 prop[0,-p-q+k[2]-2 k[4]]^-1 dot[q,q]^-2
  -1/2 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[2]]^-1 prop[0,-p-q-k[4]]^-1 prop[0,-p-q-2 k[4]]^-1 prop[0,-p-q+k[2]-2 k[4]]^-1
dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p-q-2 k[4]]^-2 prop[0,-p-q+k[2]-2 k[4]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[2]]^-1 prop[0,-p-q-k[4]]^-1 prop[0,-p-q-2 k[4]]^-2 prop[0,-p-q+k[2]-2 k[4]]^-1 dot[q,q]^-2
```

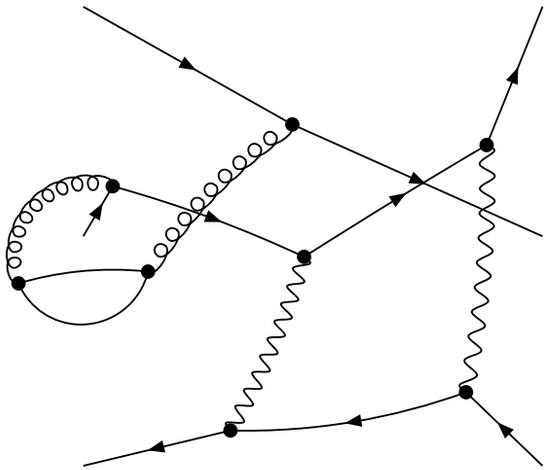


–3-16-22

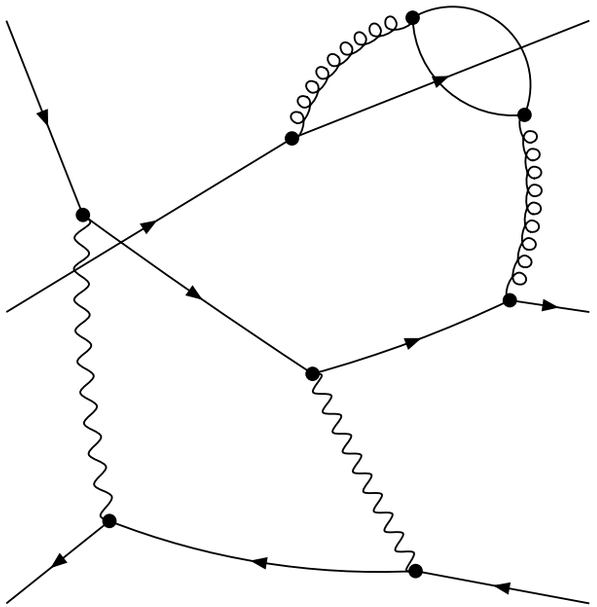
final

Denominator:

```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,k[4]]^-1 prop[0,-p-k[4]]^-1 prop[0,-p-2 k[4]]^-2 prop[0,-p+k[2]-2 k[4]]^-1
```



−1-16-20



−1-16-18

embedding 38 [1, 1, 1, −1, 0]

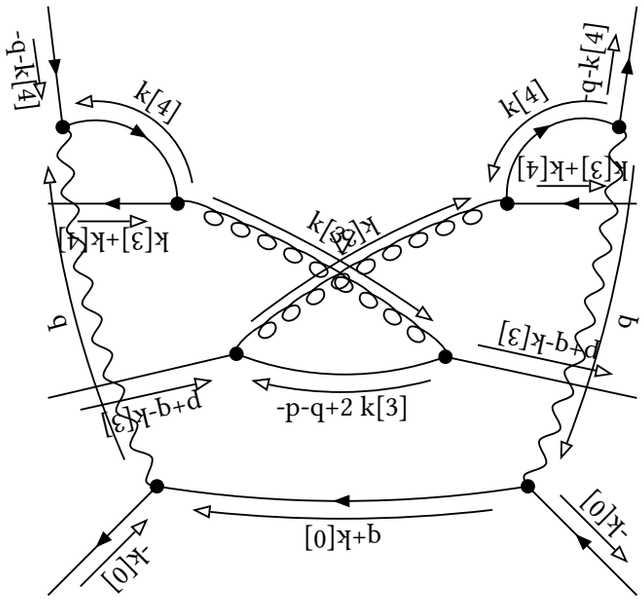
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q+k[3]]^-1 prop[0,-p-q+2 k[3]]^-1
```

Partial Fractioned Denominator:

```
-1/2 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[3]]^-1 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q+k[3]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[3]]^-1 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q+2 k[3]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q+k[3]]^-1 prop[0,-p-q+2 k[3]]^-1 dot[q,q]^-2
  -1/2 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q+k[3]]^-1 dot[q,q]^-2
  +(1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q+2 k[3]]^-1 dot[q,q]^-2
```

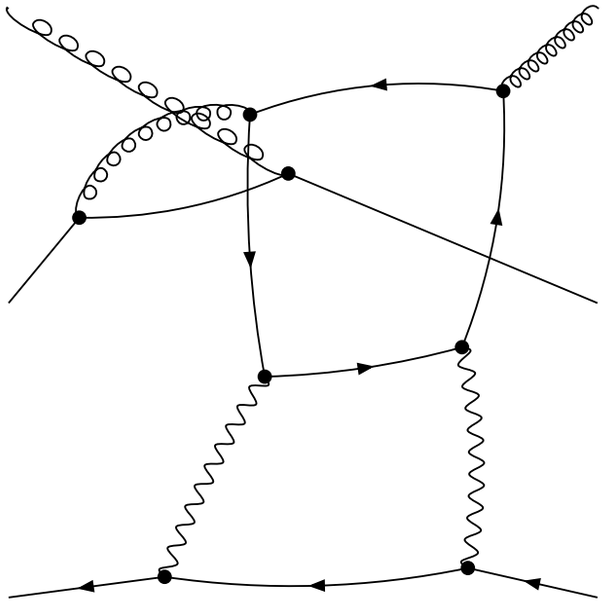


−3-9+16-22

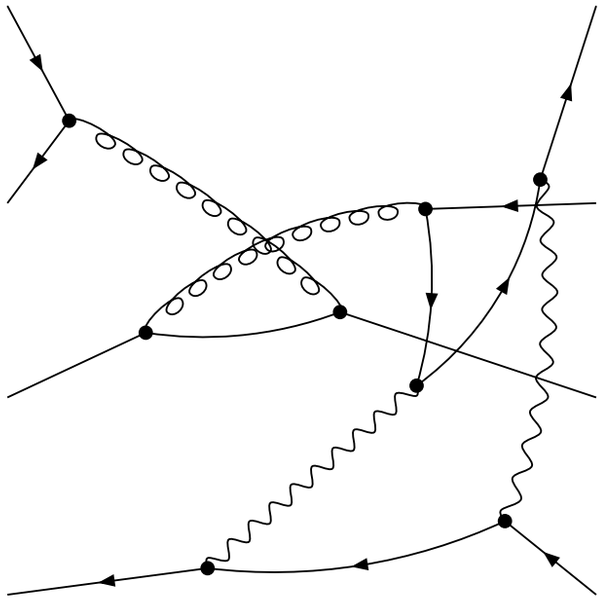
final

Denominator:

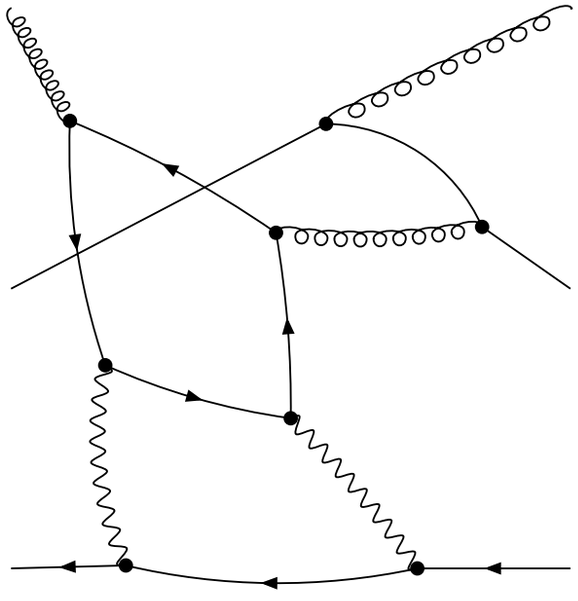
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[3]]^-1 prop[0,-p+2 k[3]]^-1
```



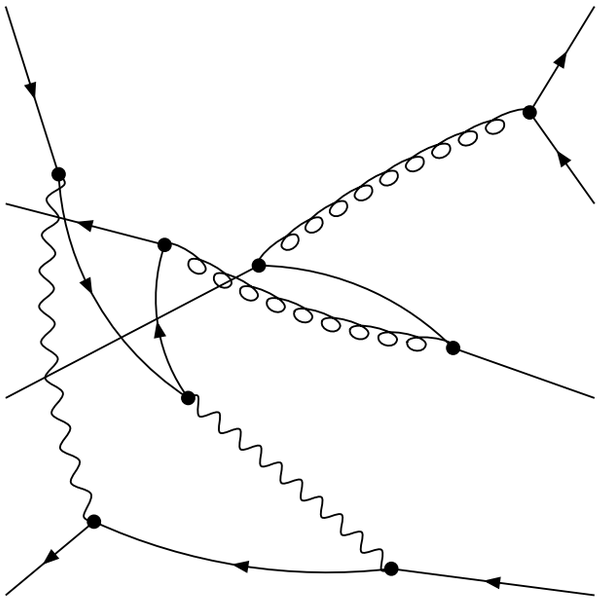
−1-9+13



−1-9+16-20



−1-9+14



−1-9+16-18

embedding 39 [1, 1, 1, −1, 1]

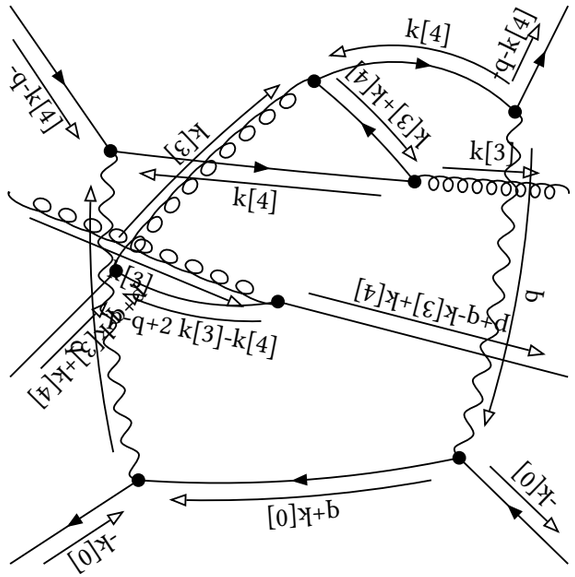
initial

Denominator:

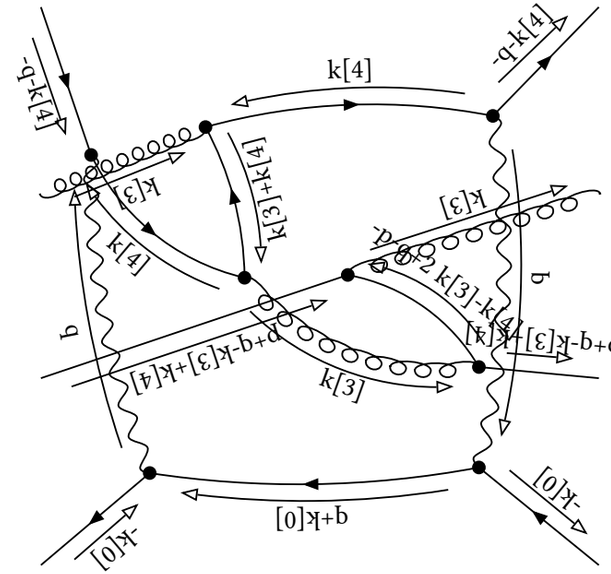
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q+k[3]-k[4]]^-1 prop[0,-p-q+2 k[3]-k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q+k[3]-k[4]]^-1 prop[0,-p-q+2 k[3]-k[4]]^-1 dot[q,q]^-2
```



−3-9+13-22

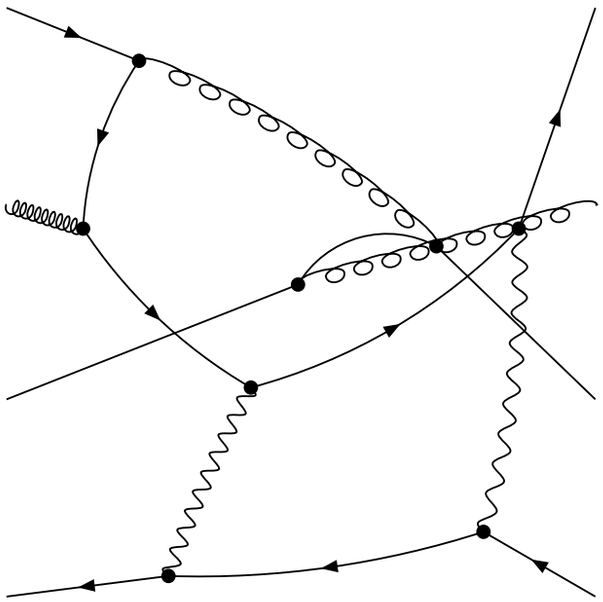


−3-9+14-22

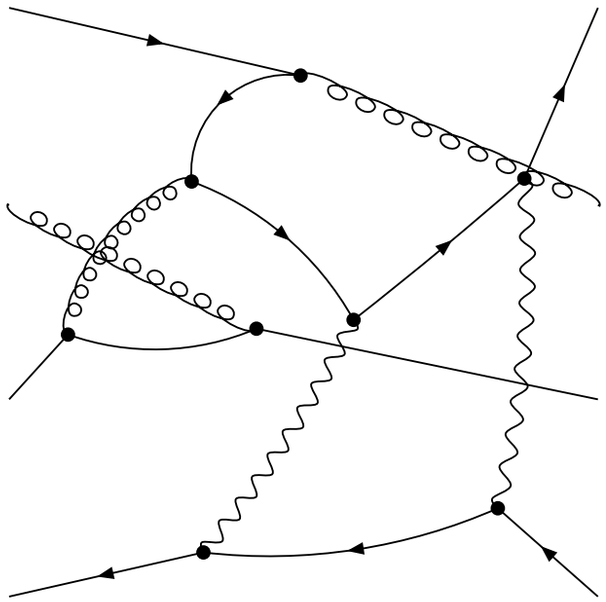
final

Denominator:

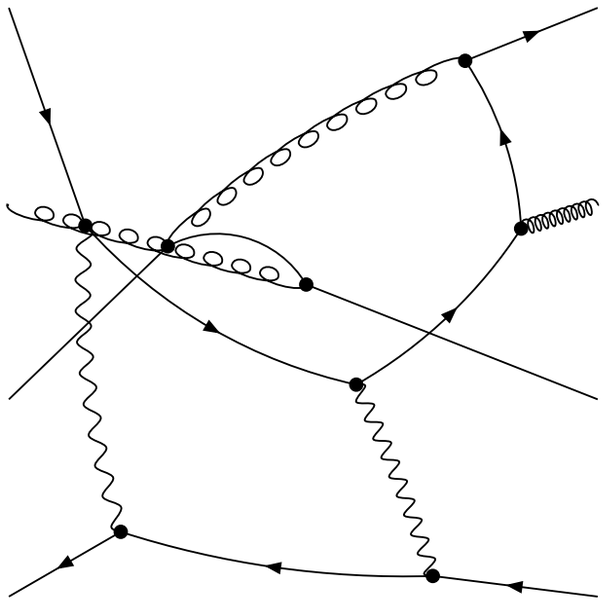
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[3]-k[4]]^-1 prop[0,-p+2 k[3]-k[4]]^-1
```



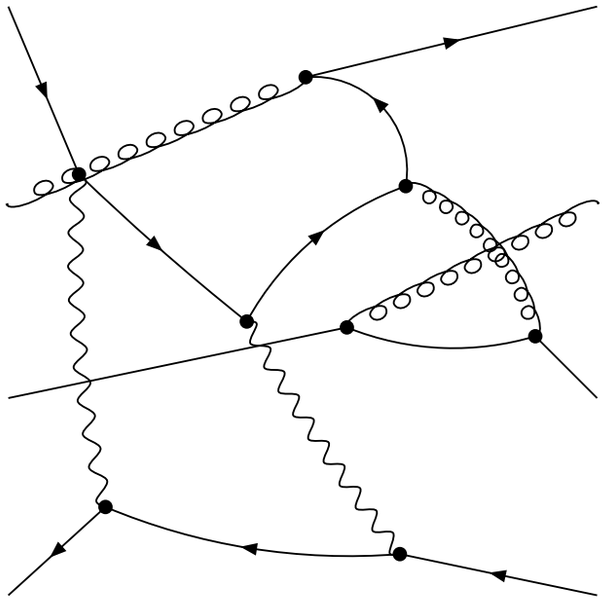
−1-9+14-20



−1-9+13-20



−1-9+13-18



−1-9+14-18

embedding 40 [1, 1, 1, 0, 0]

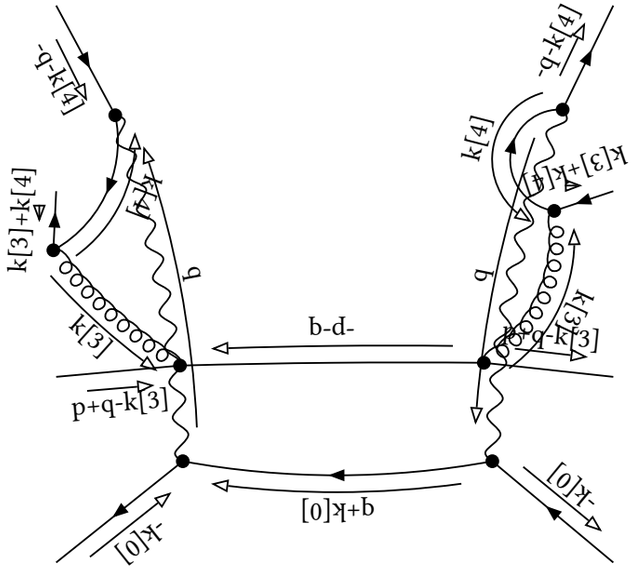
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q]^-1 prop[0,-p-q+k[3]]^-1
```

Partial Fractioned Denominator:

```
(dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q+k[3]]^-1 dot[q,q]^-2
```

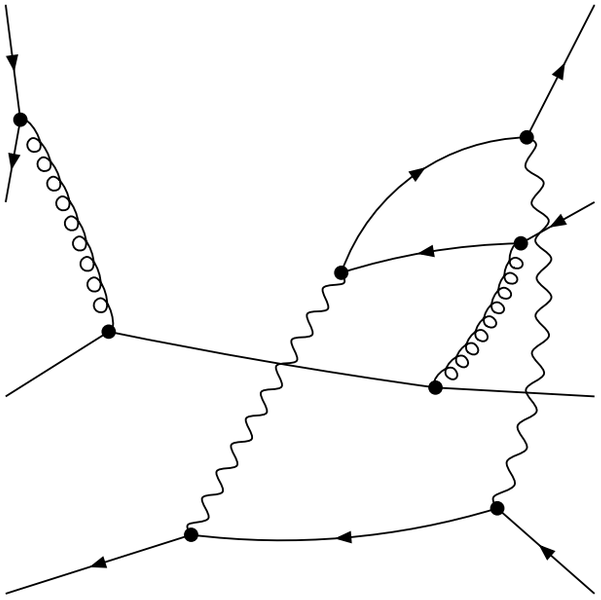


−3-10+16-22

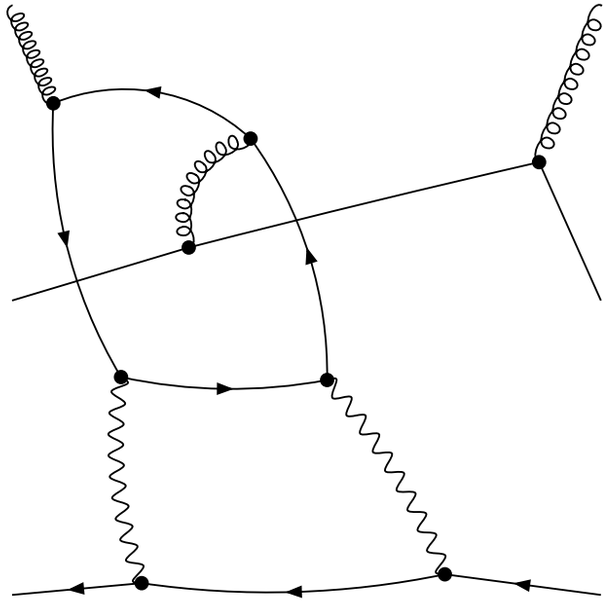
final

Denominator:

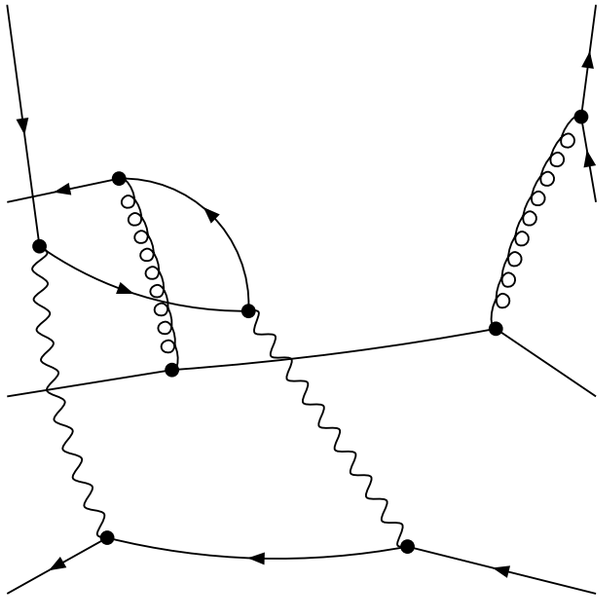
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,-p]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p+k[3]]^-1
```



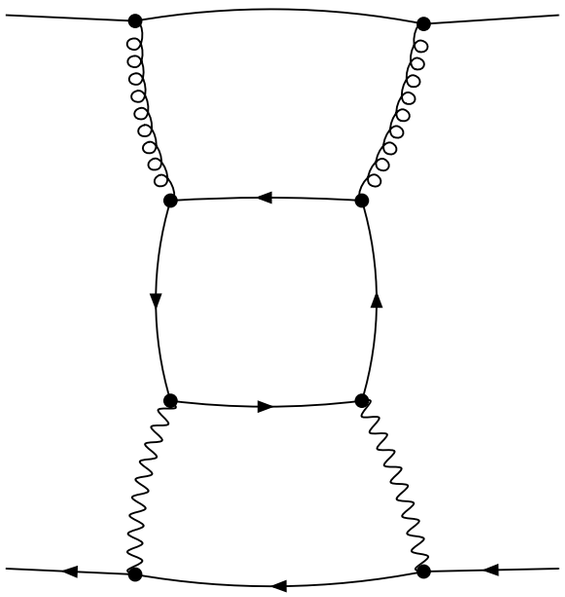
−1-10+16-20



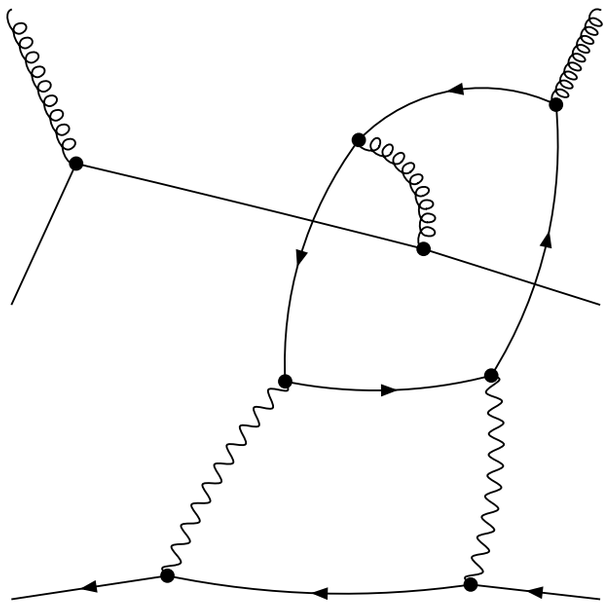
−1-10+14



−1-10+16-18



−1-9



−1-10+13

embedding 41 [1, 1, 1, 0, 1]

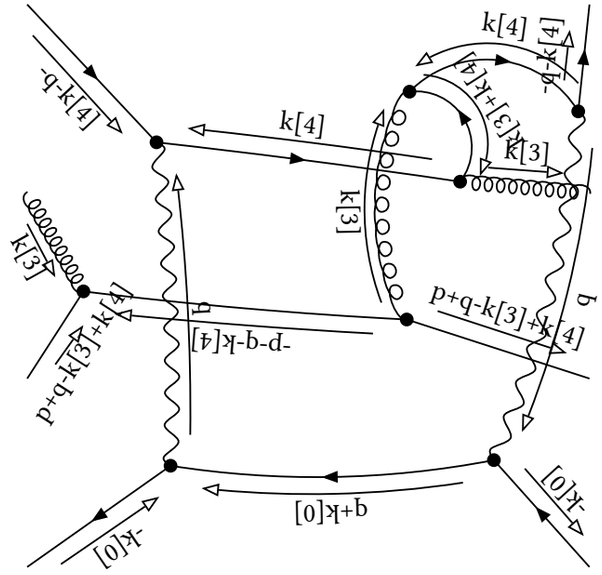
initial

Denominator:

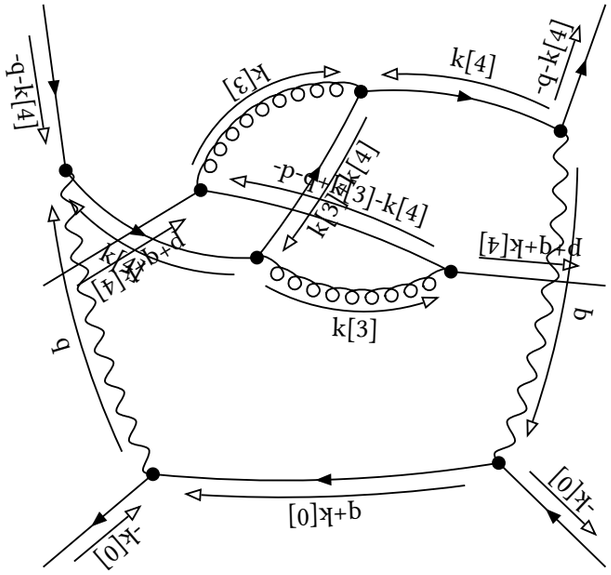
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-k[4]]^-1 prop[0,-p-q+k[3]-k[4]]^-1
```

Partial Fractioned Denominator:

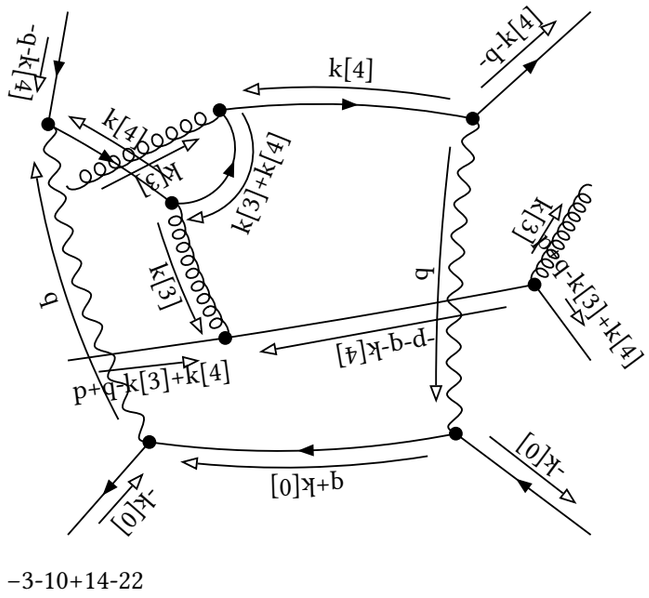
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-k[4]]^-1 prop[0,-p-q+k[3]-k[4]]^-1 dot[q,q]^-2
```



−3-10+13-22



−3-9-22

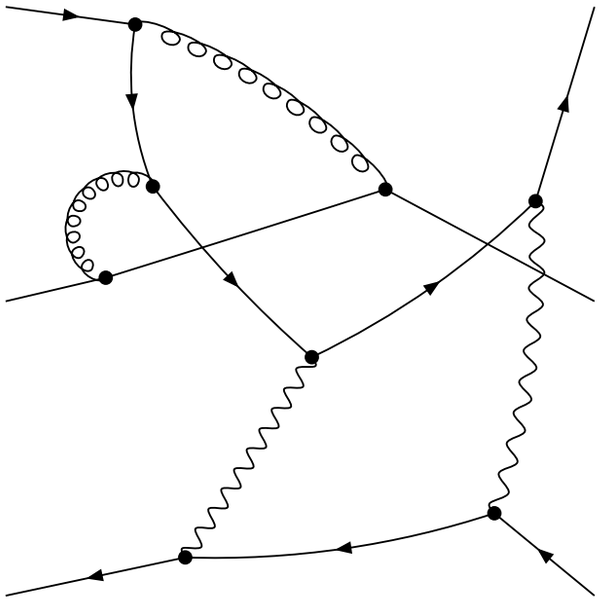


−3-10+14-22

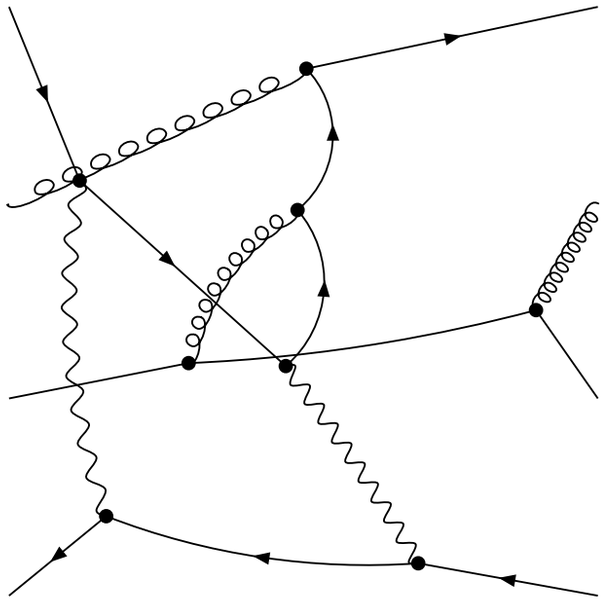
final

Denominator:

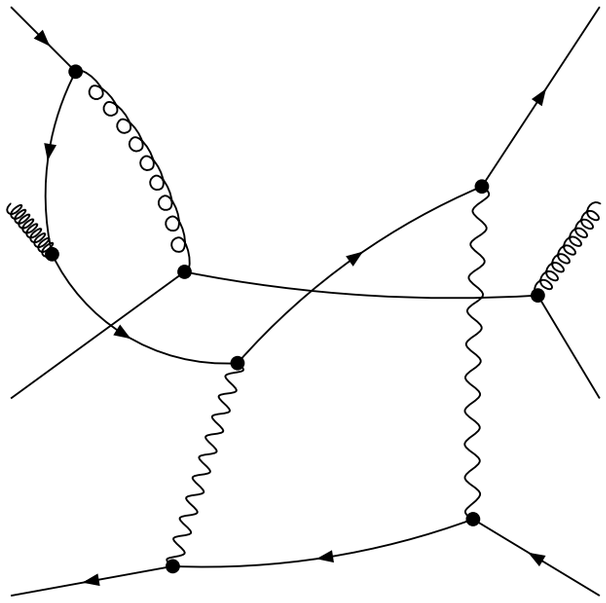
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[4]]^-1 prop[0,-p+k[3]-k[4]]^-1
```



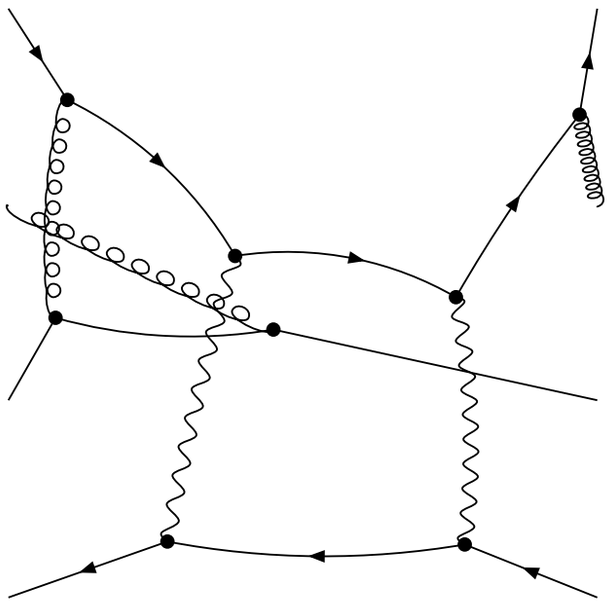
−1-9-20



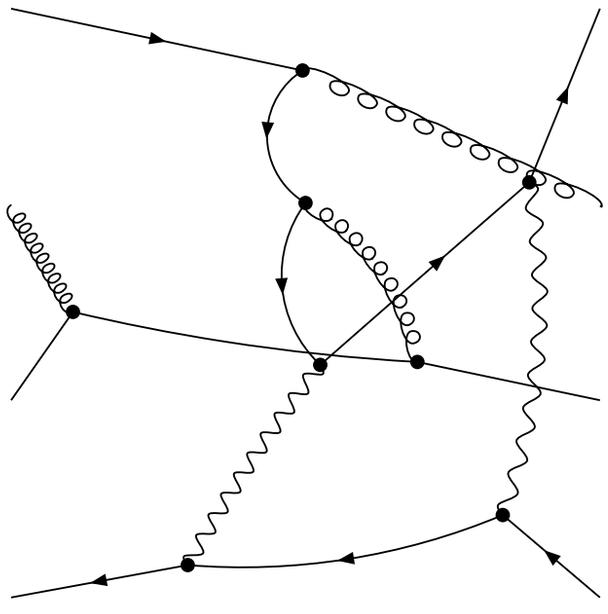
−1-10+14-18



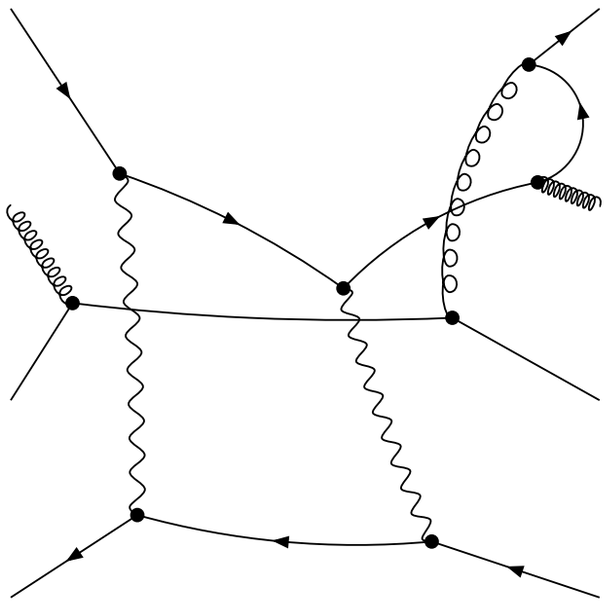
−1-10+14-20



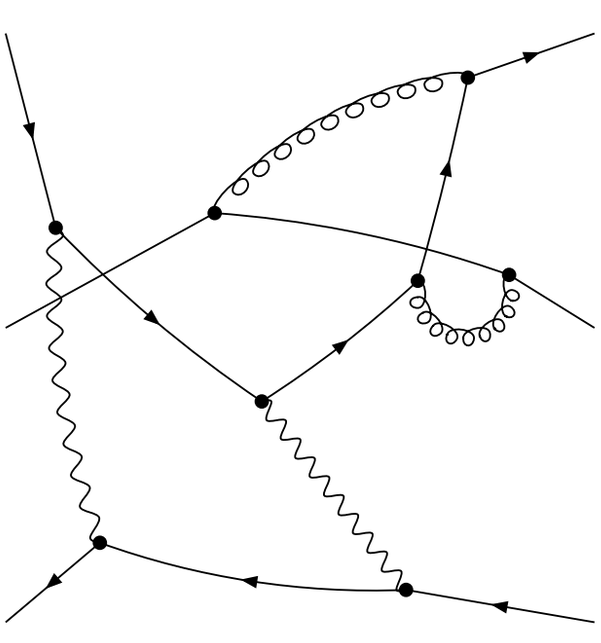
−1-9+13-16



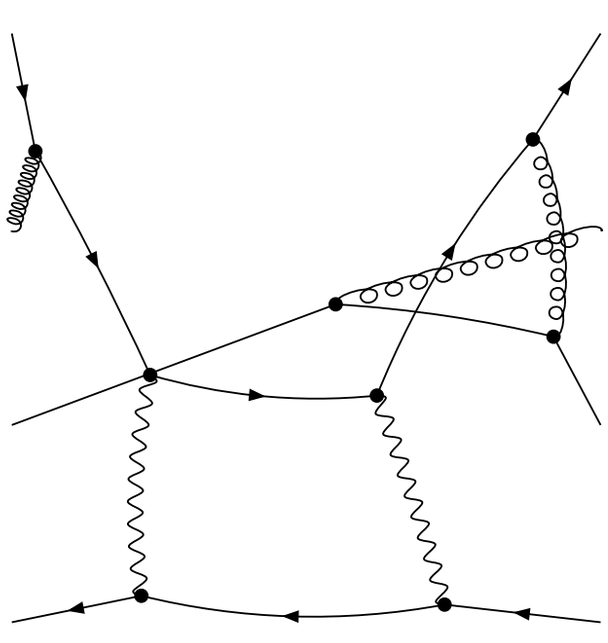
−1-10+13-20



−1-10+13-18



−1-9-18



−1-9+14-16

embedding 42 [1, 1, 1, 1, 1]

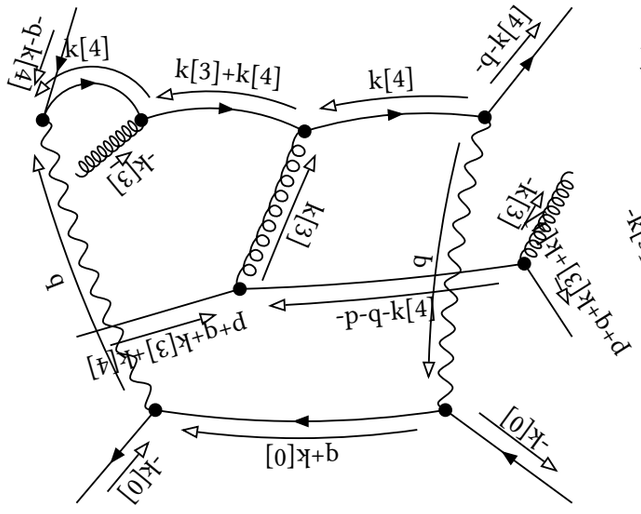
initial

Denominator:

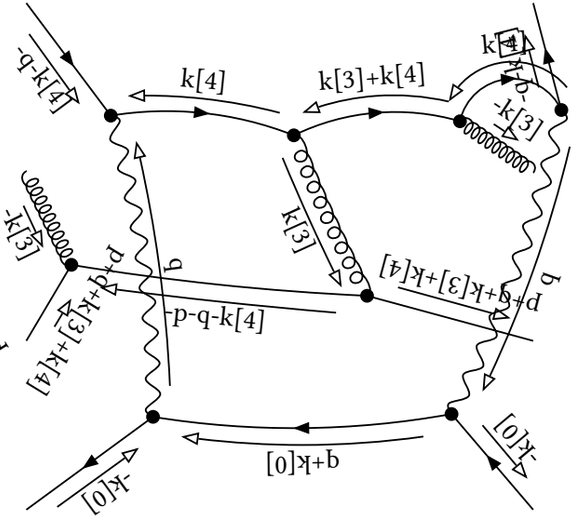
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-k[4]]^-1 prop[0,-p-q-k[3]-k[4]]^-1
```

Partial Fractioned Denominator:

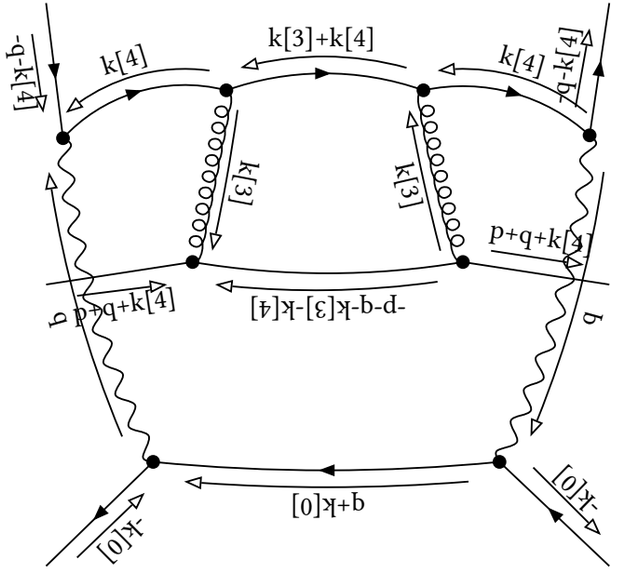
```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-k[4]]^-1 prop[0,-p-q-k[3]-k[4]]^-1 dot[q,q]^-2
```



−3-9-13-22



−3-9-14-22

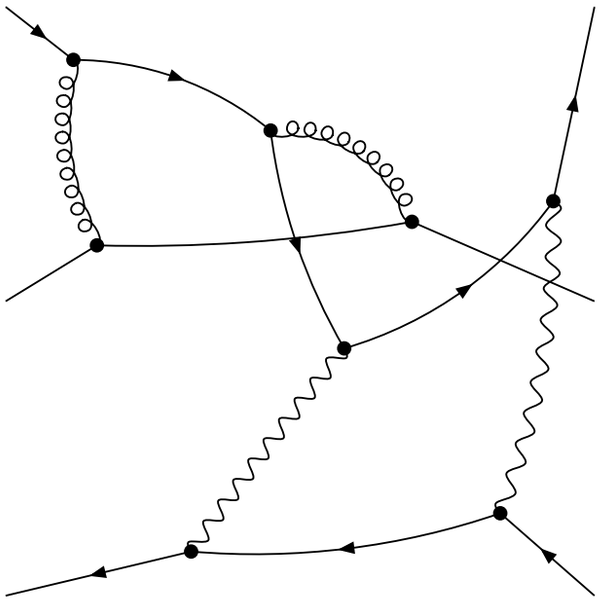


−3-10-22

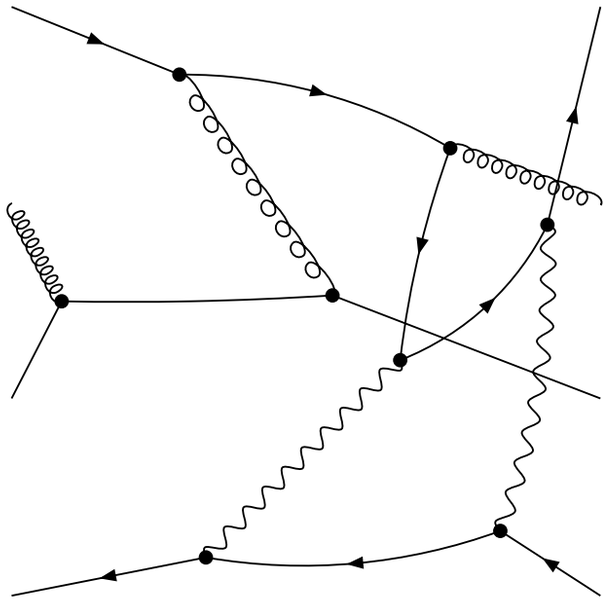
final

Denominator:

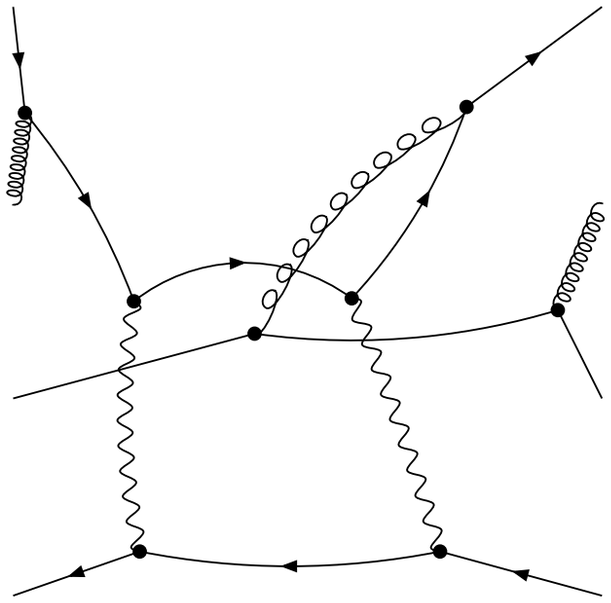
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[4]]^-1 prop[0,-p-k[3]-k[4]]^-1
```



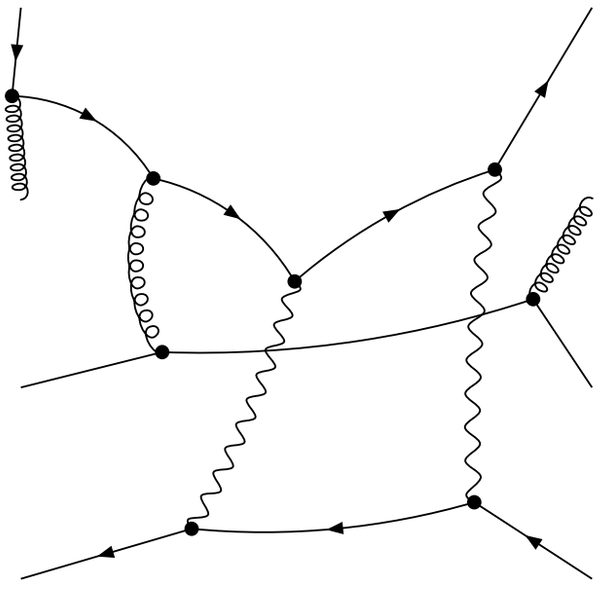
−1-10-20



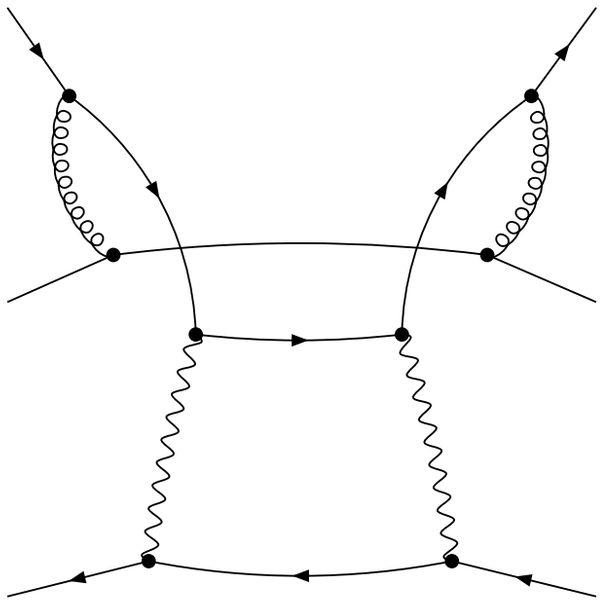
−1-9-14-20



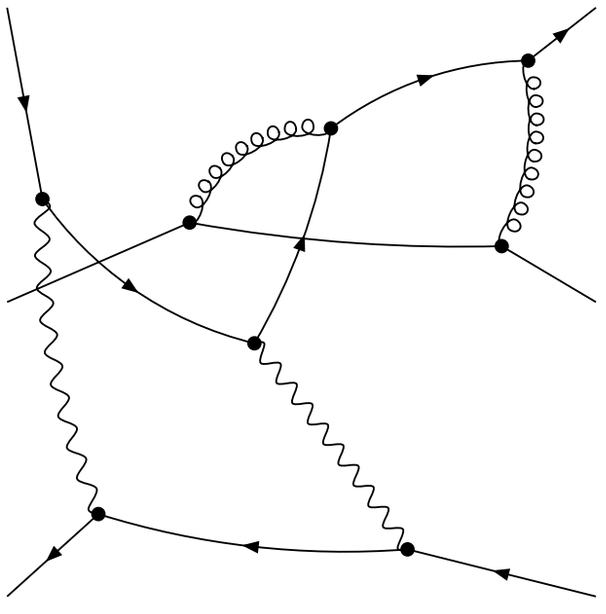
−1-10+14-16



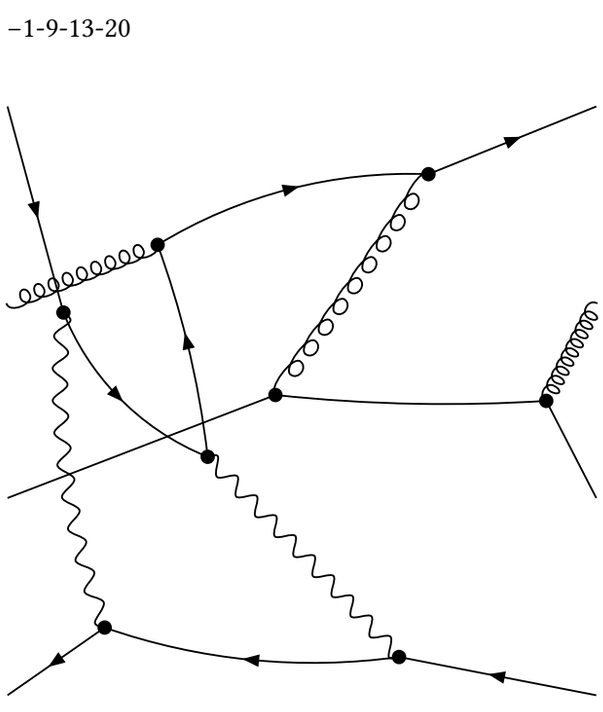
−1-9-13-20



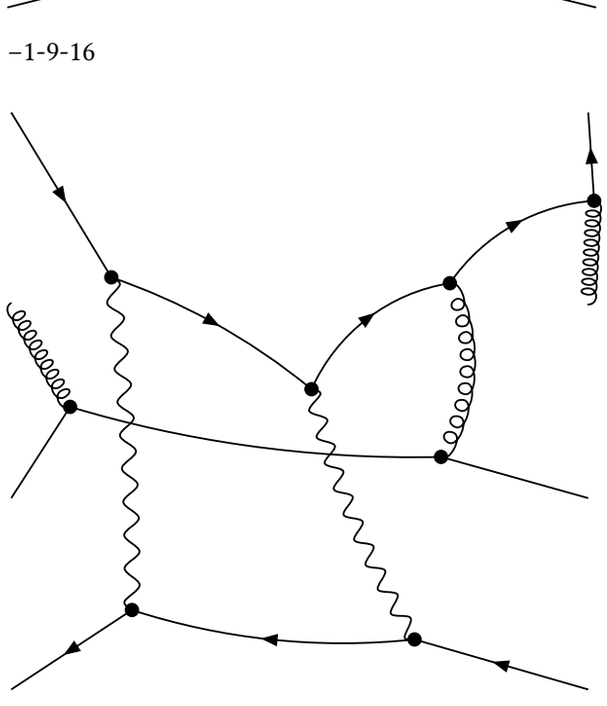
−1-9-16



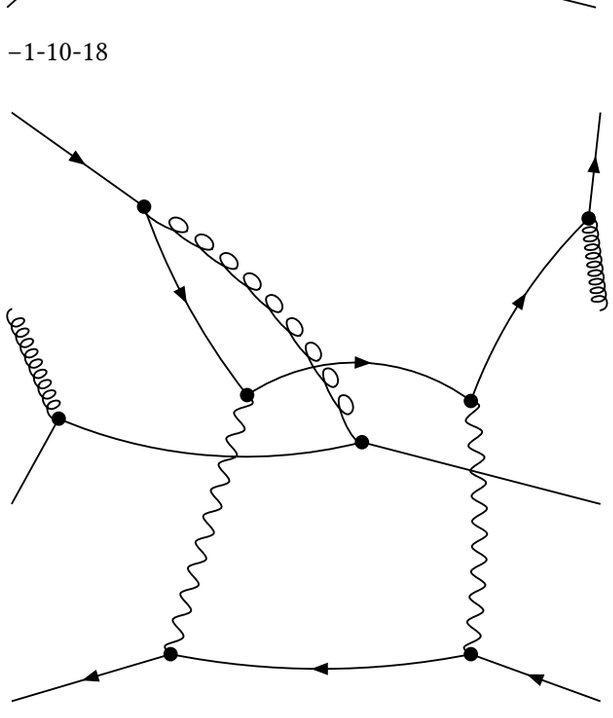
−1-10-18



−1-9-13-18



−1-9-14-18



−1-10+13-16

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

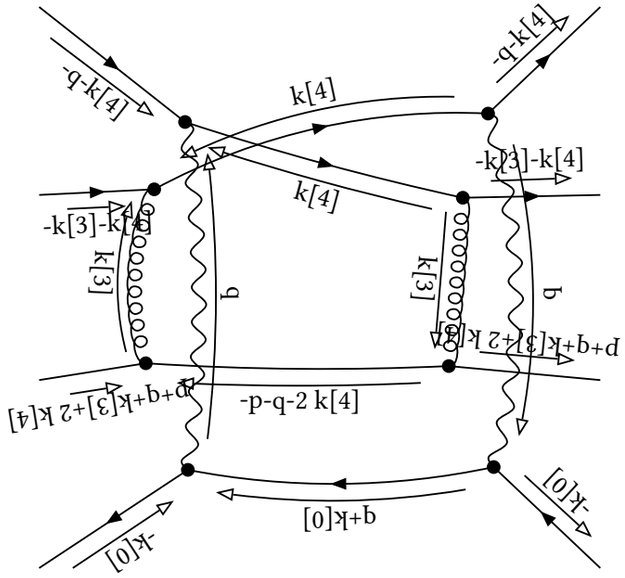
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-2 k[4]]^-1 prop[0,-p-q-k[3]-2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-2 k[4]]^-1 prop[0,-p-q-k[3]-2 k[4]]^-1 dot[q,q]^-2
```

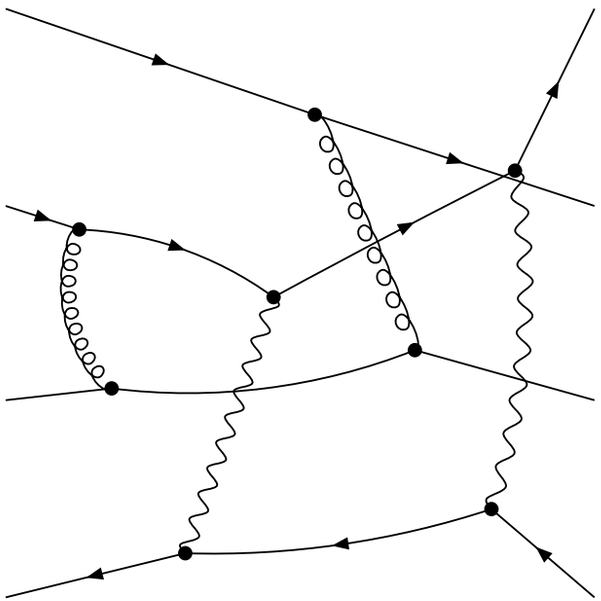


–3-9-16-22

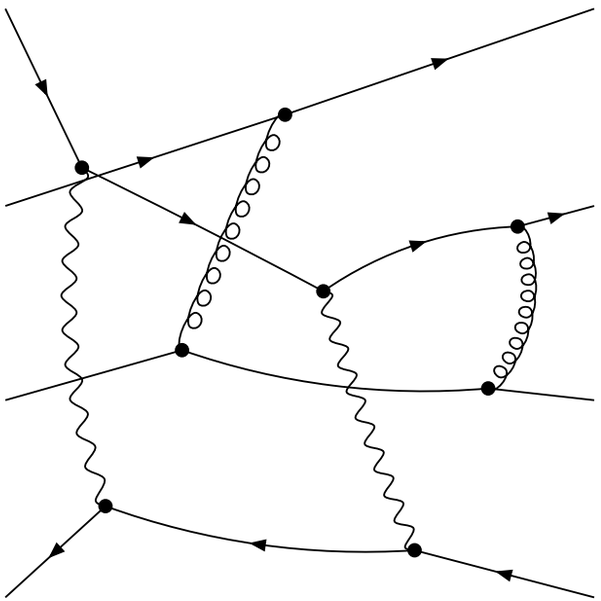
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-2 k[4]]^-1 prop[0,-p-k[3]-2 k[4]]^-1
```



−1-9-16-20



−1-9-16-18

embedding 44 [1, 1, 1, 2, 1]

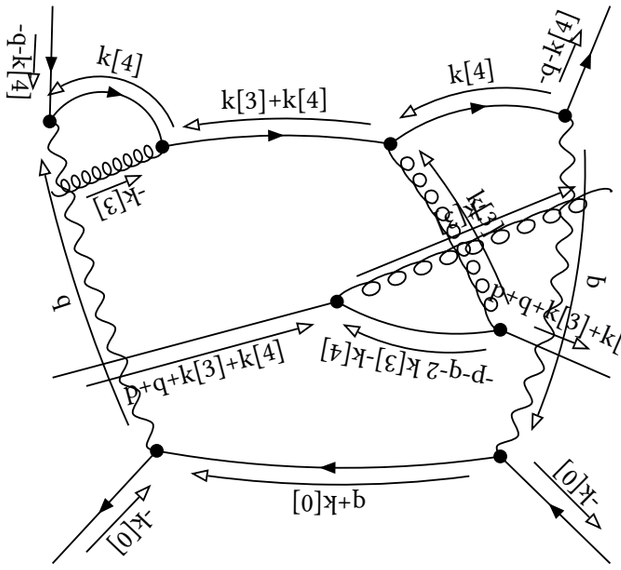
initial

Denominator:

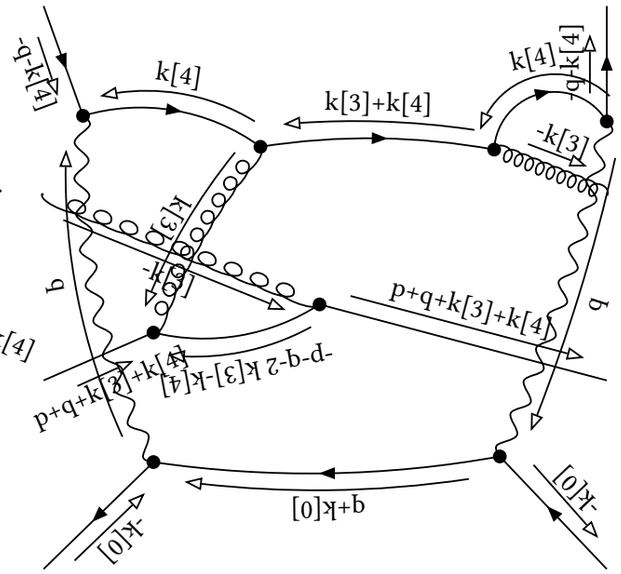
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-k[3]-k[4]]^-1 prop[0,-p-q-2 k[3]-k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-k[3]-k[4]]^-1 prop[0,-p-q-2 k[3]-k[4]]^-1 dot[q,q]^-2
```



−3-10-13-22

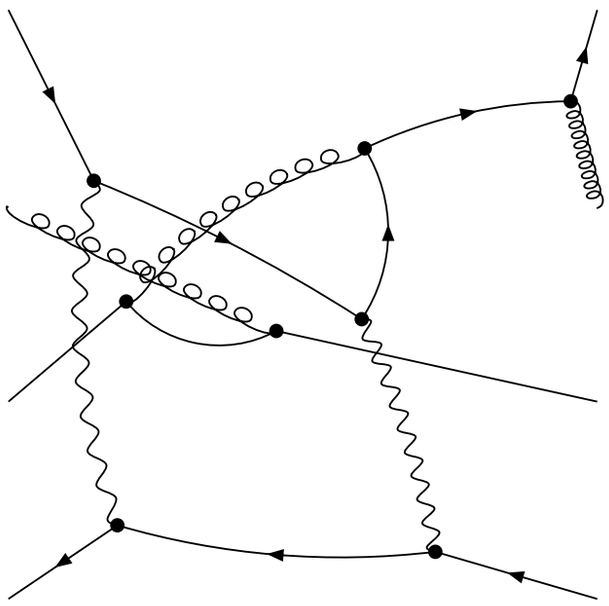


−3-10-14-22

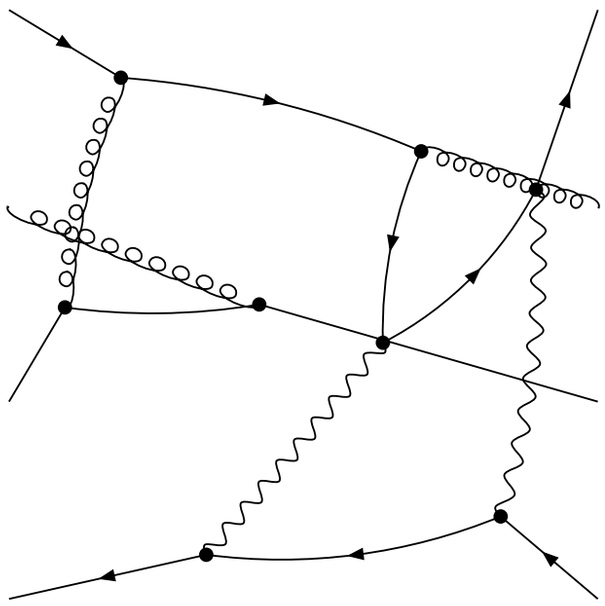
final

Denominator:

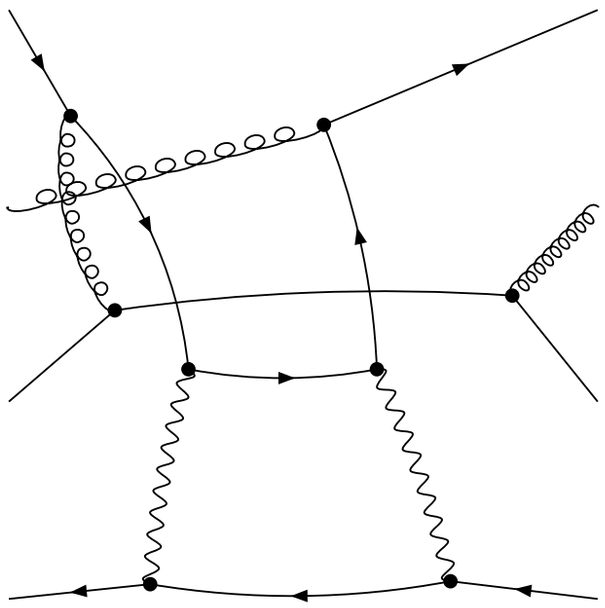
```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]-k[4]]^-1 prop[0,-p-2 k[3]-k[4]]^-1
```



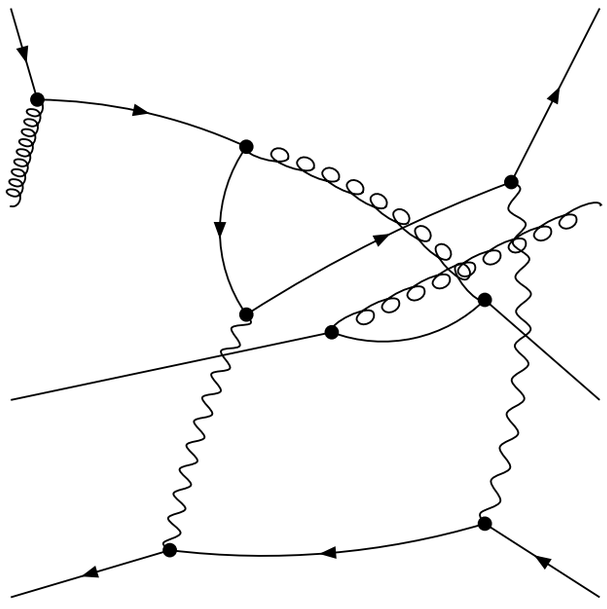
−1-10-14-18



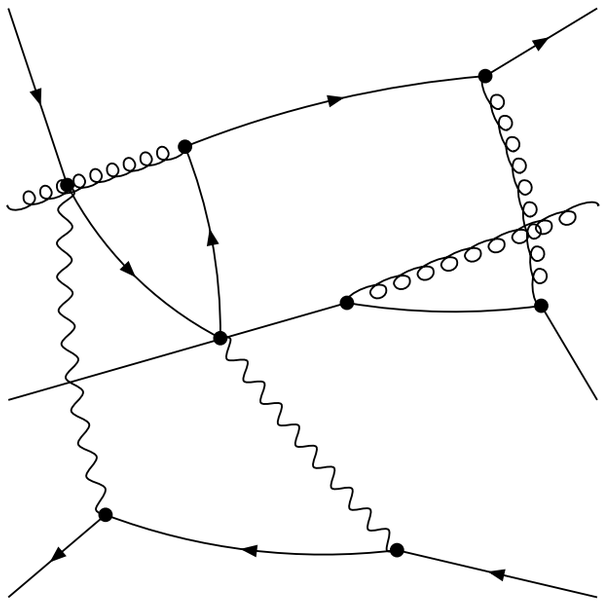
−1-10-14-20



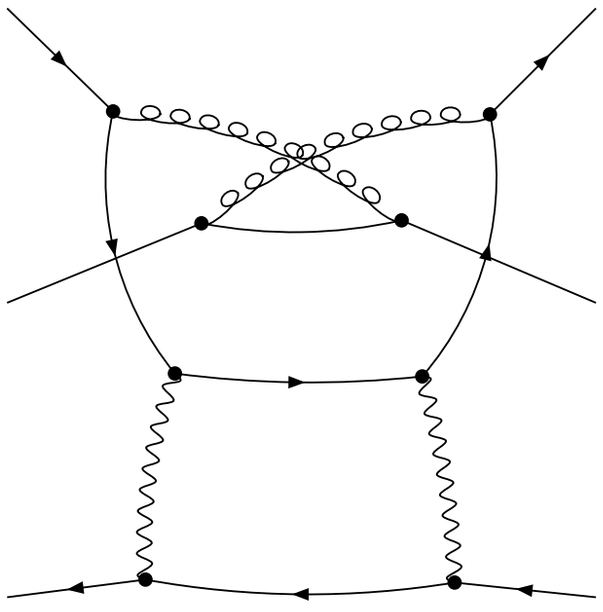
−1-9-13-16



−1-10-13-20



−1-10-13-18



−1-10-16

−1-9-14-16

embedding 45 [1, 1, 1, 2, 2]

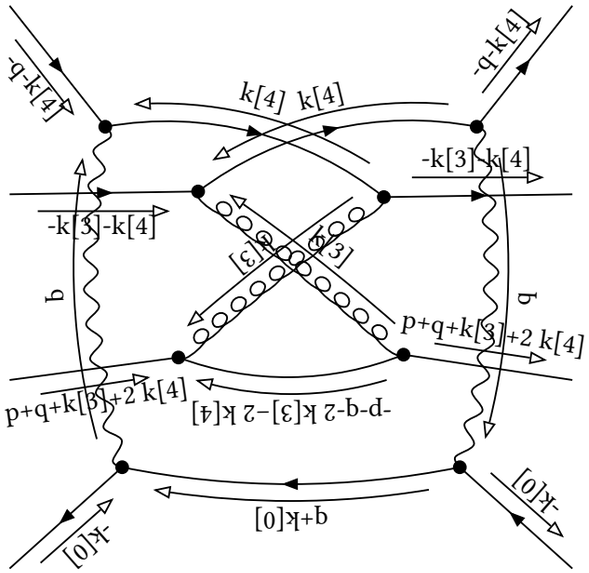
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-k[3]-2 k[4]]^-1 prop[0,-p-q-2 k[3]-2 k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-q-k[3]-2 k[4]]^-1 prop[0,-p-q-2 k[3]-2 k[4]]^-1 dot[q,q]^-2
```

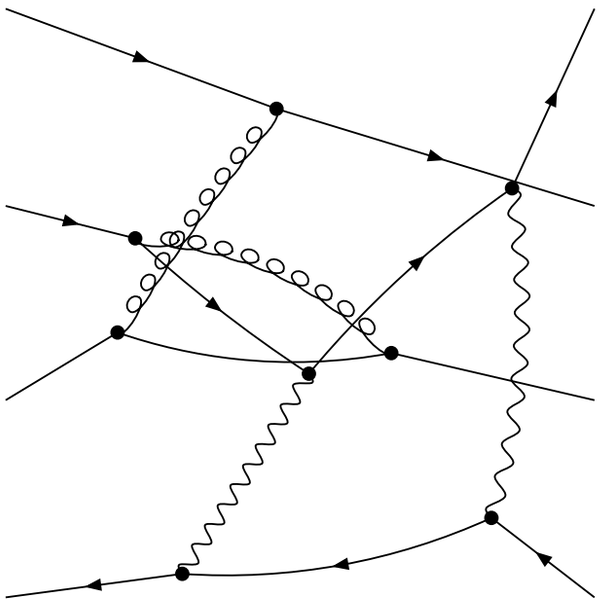


–3-10-16-22

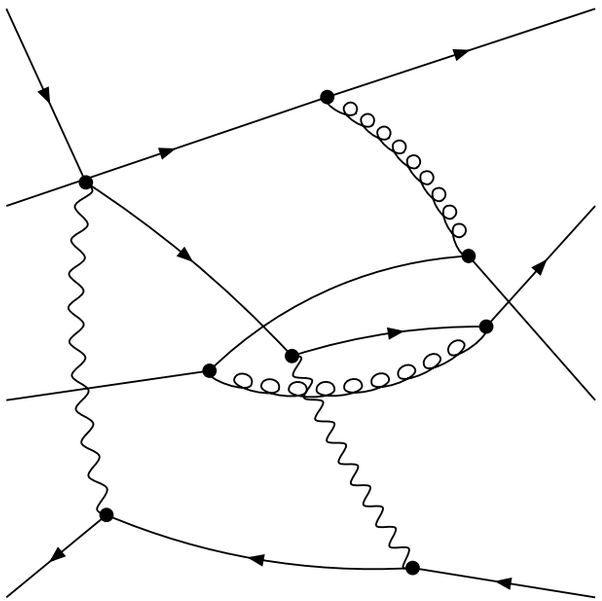
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-p-k[3]-2 k[4]]^-1 prop[0,-p-2 k[3]-2 k[4]]^-1
```



−1-10-16-20



−1-10-16-18

embedding 46 [1, 1, 2, 1, 1]

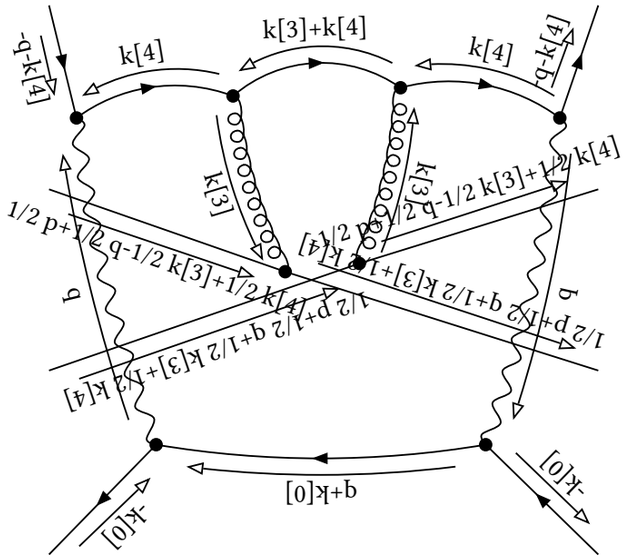
initial

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-1/2 p-1/2 q+1/2 k[3]-1/2 k[4]]^-1 prop[0,-1/2 p-1/2 q-1/2 k[3]-1/2
k[4]]^-1
```

Partial Fractioned Denominator:

```
prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-1/2 p-1/2 q+1/2 k[3]-1/2 k[4]]^-1 prop[0,-1/2 p-1/2 q-1/2 k[3]-1/2 k[4]]^-1
dot[q,q]^-2
```

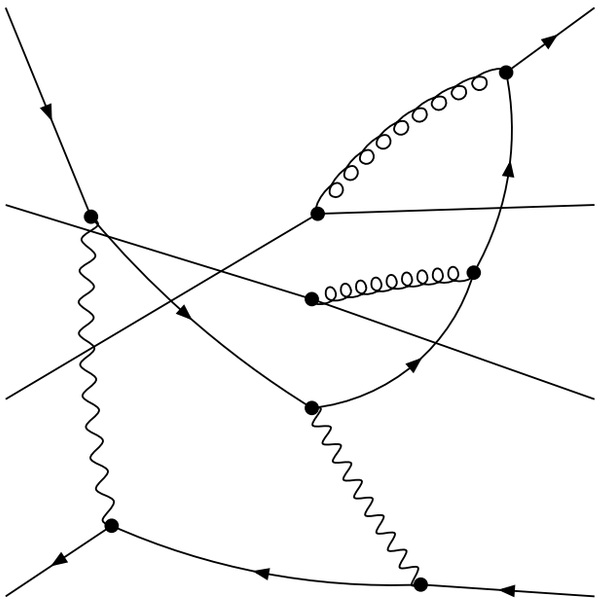


–3-9-10-22

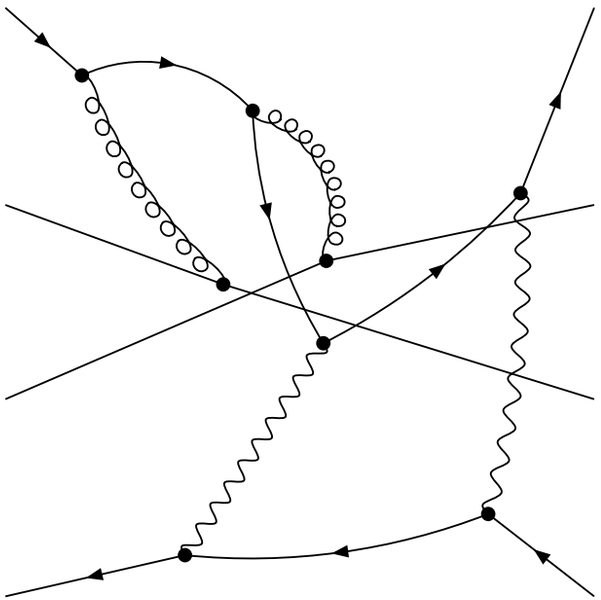
final

Denominator:

```
prop[0,q]^-2 prop[0,k[3]]^-2 prop[0,k[4]]^-1 prop[0,k[3]+k[4]]^-1 prop[0,-1/2 p+1/2 k[3]-1/2 k[4]]^-1 prop[0,-1/2 p-1/2 k[3]-1/2 k[4]]^-1
```



−1-9-10-18



−1-9-10-20