embedding 1 [1, −1, −1, −2]

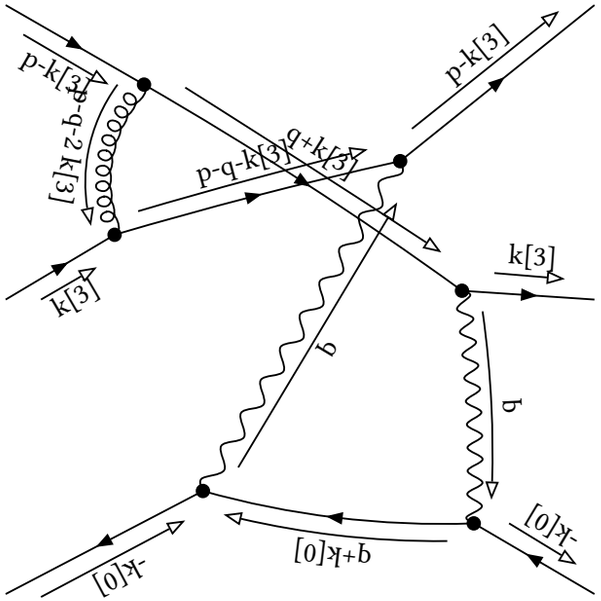
initial

Denominator:

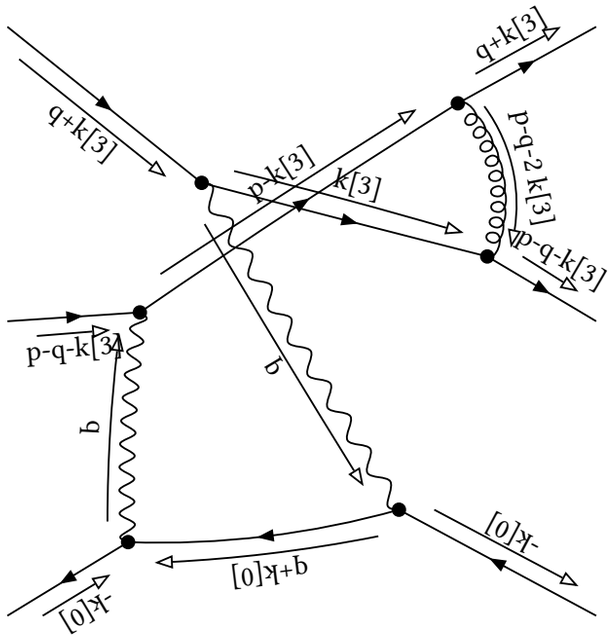
```
prop[0,q]^-2 prop[0,k[3]]^-1 prop[0,p-q-k[3]]^-1 prop[0,p-q-2 k[3]]^-1
```

Partial Fractioned Denominator:

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



−3+13+15

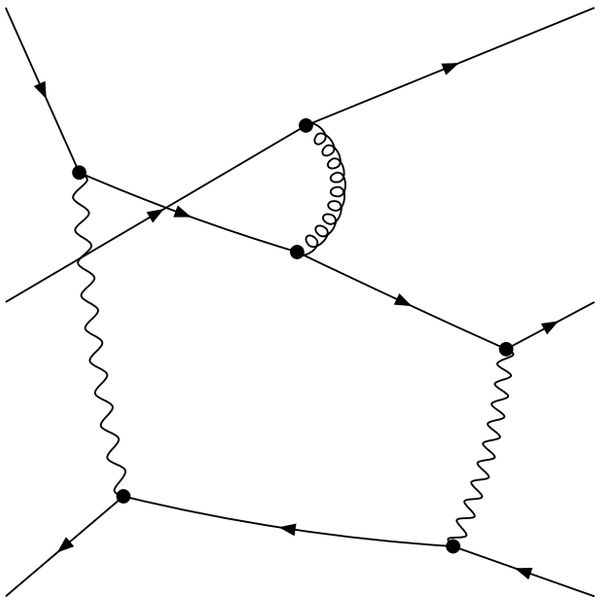


−3+11+17

final

Denominator:

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



−1+15+17

embedding 2 [1, 0, −2, −1]

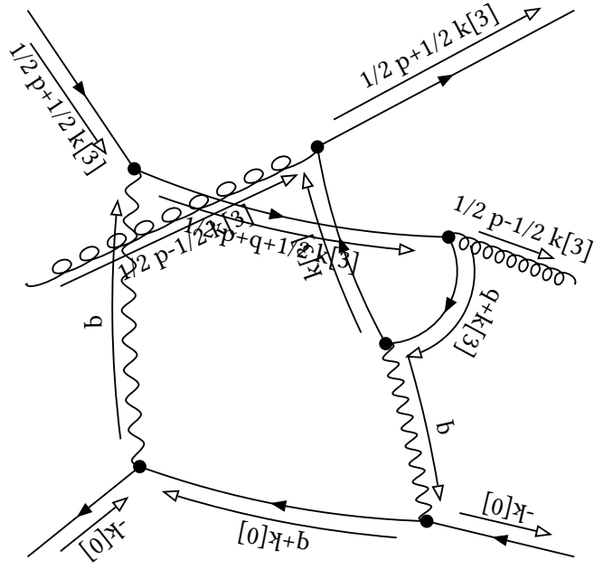
initial

Denominator:

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

Partial Fractioned Denominator:

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

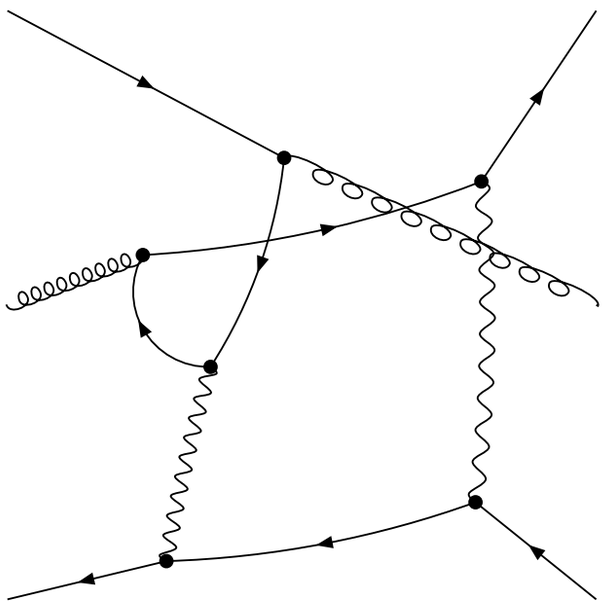


−3+9+11

final

Denominator:

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



−1+9+15

embedding 3 [1, 0, −1, −2]

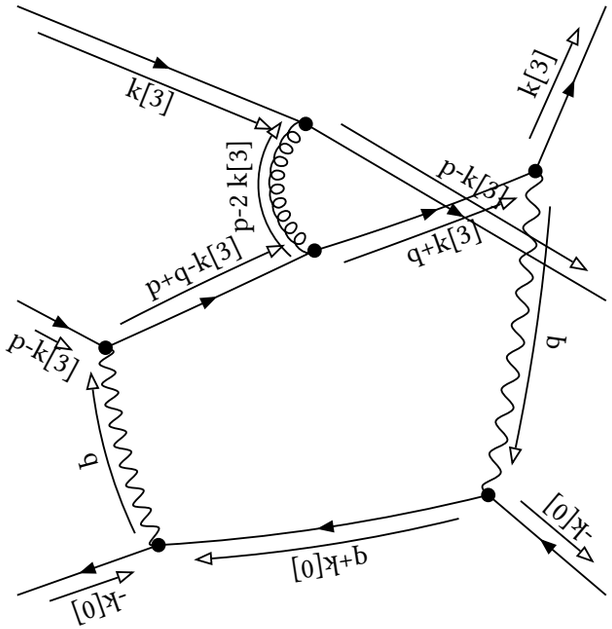
initial

Denominator:

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

Partial Fractioned Denominator:

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

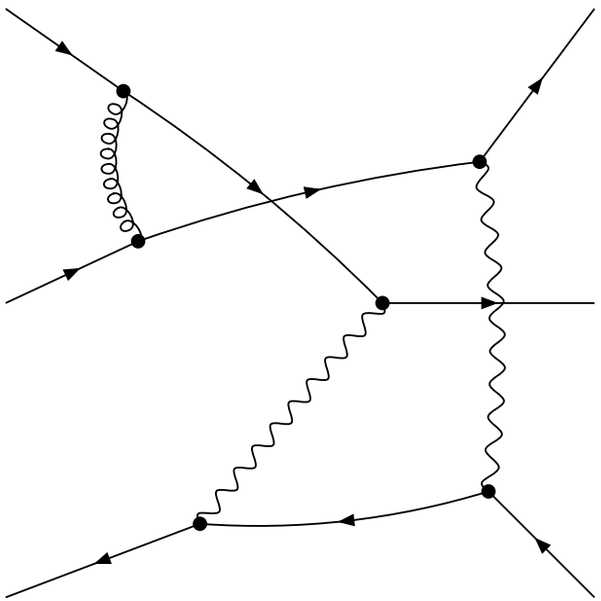


−3+11+13

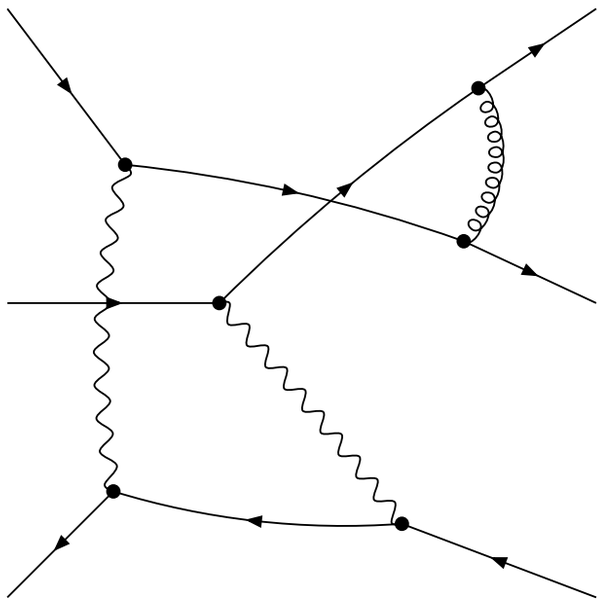
final

Denominator:

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



−1+13+15



−1+11+17

embedding 4 [1, 0, −1, −1]

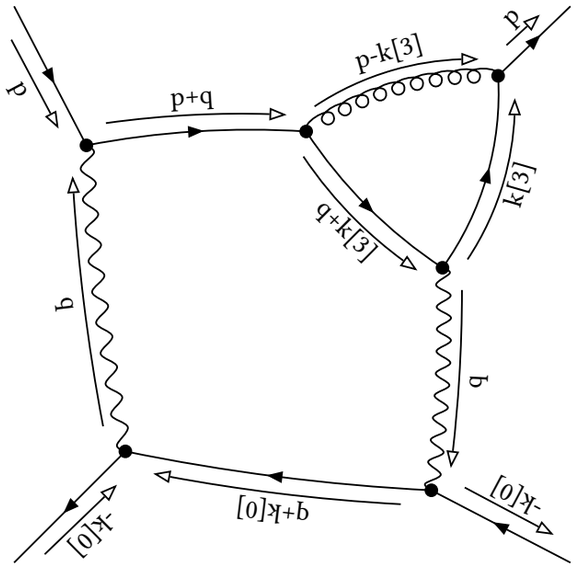
initial

Denominator:

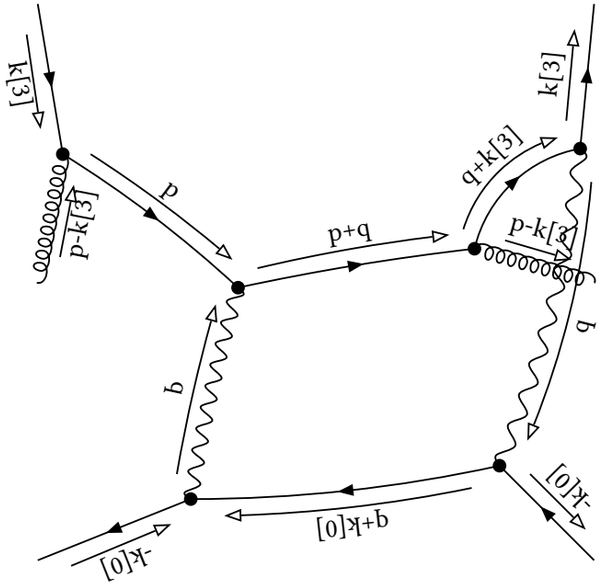
```
prop[0,p]^-1 prop[0,q]^-2 prop[0,k[3]]^-1 prop[0,p-k[3]]^-1
```

Partial Fractioned Denominator:

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



−3+11

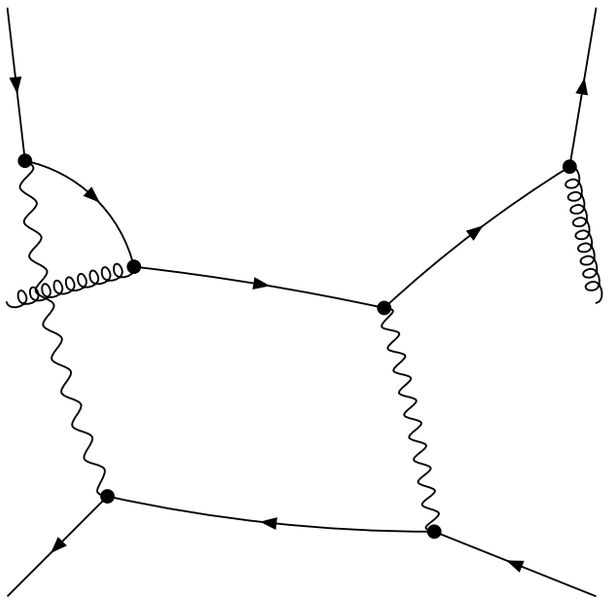


−3+9+13

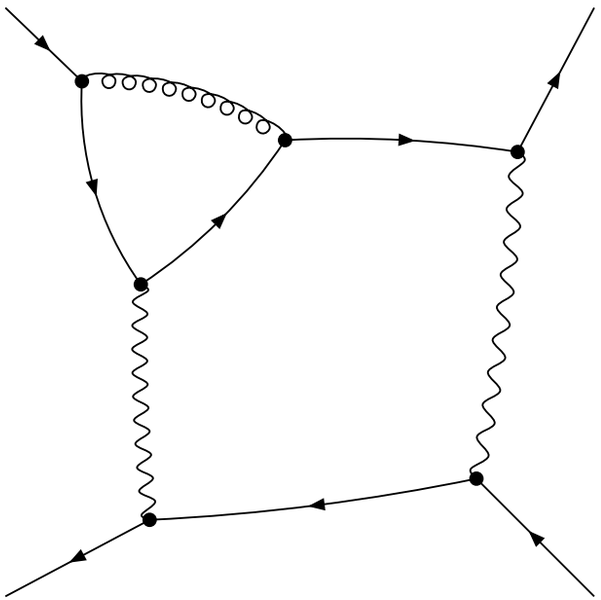
final

Denominator:

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



−1+9+17



−1+15

embedding 5 [1, 0, −1, 0]

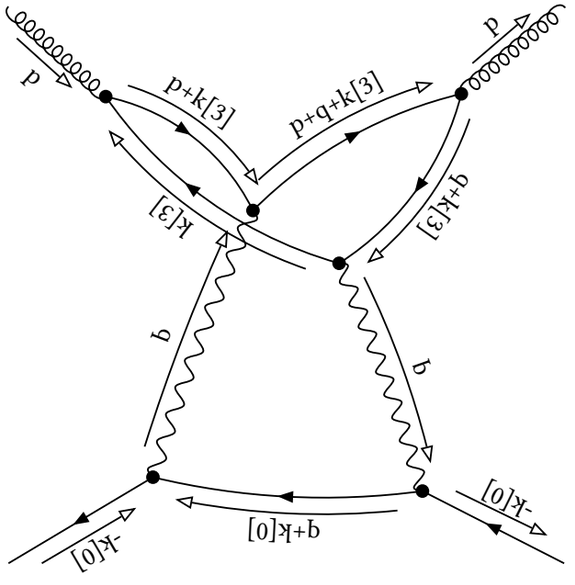
initial

Denominator:

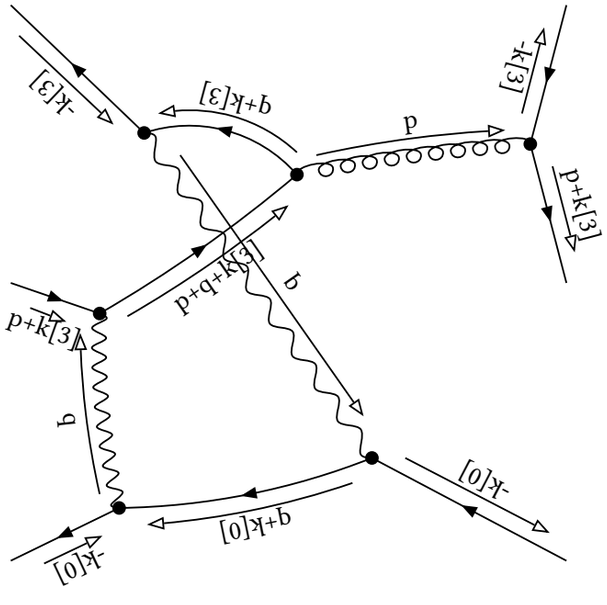
```
prop[0,p]^-1 prop[0,q]^-2 prop[0,k[3]]^-1 prop[0,p+k[3]]^-1
```

Partial Fractioned Denominator:

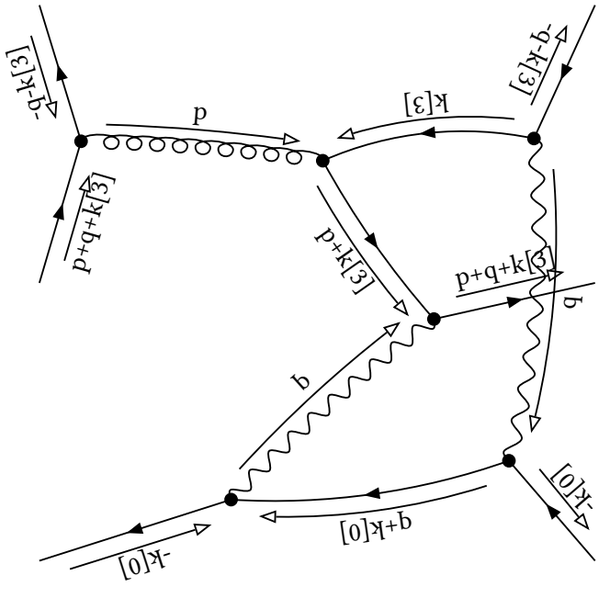
```
prop[0,k[3]]^-1 prop[0,p+k[3]]^-1 dot[p,p]^-1 dot[q,q]^-2
```



−3+9



−3+11-13

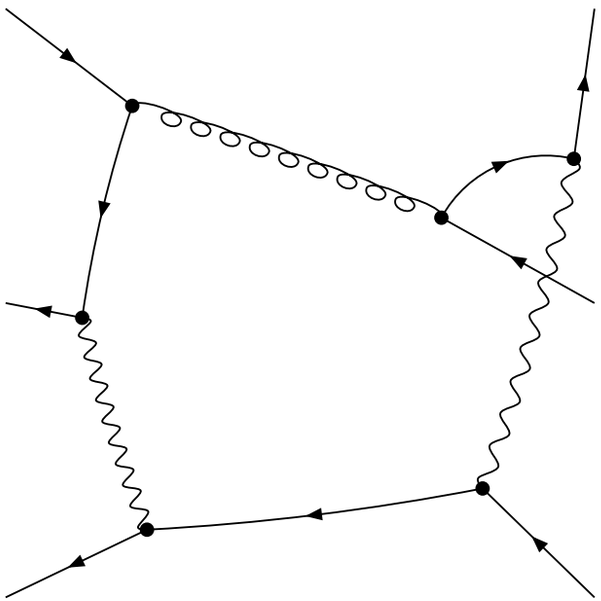


−3+15-17

final

Denominator:

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



−1-13+15

embedding 6 [1, 0, 0, −1]

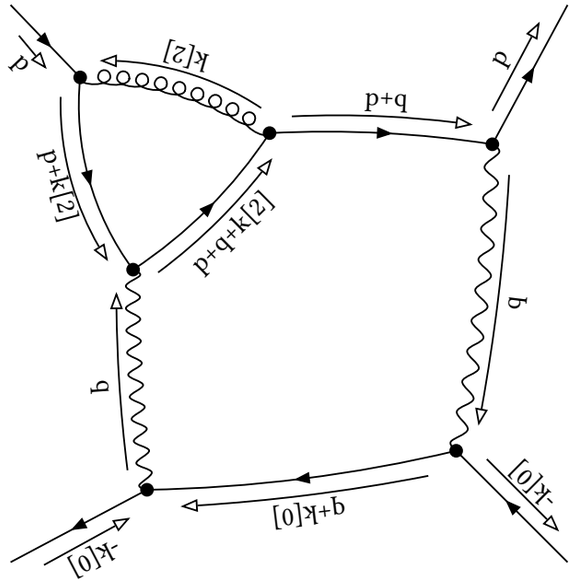
initial

Denominator:

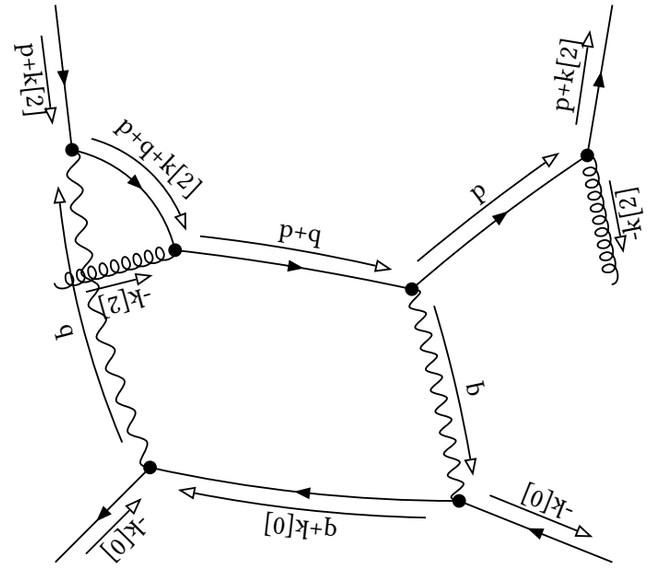
```
prop[0,p]^-1 prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,p+k[2]]^-1
```

Partial Fractioned Denominator:

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



−3+13

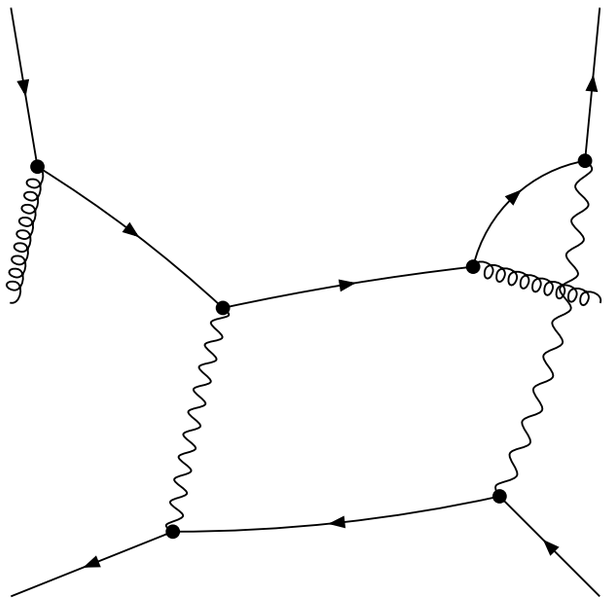


−3-9+11

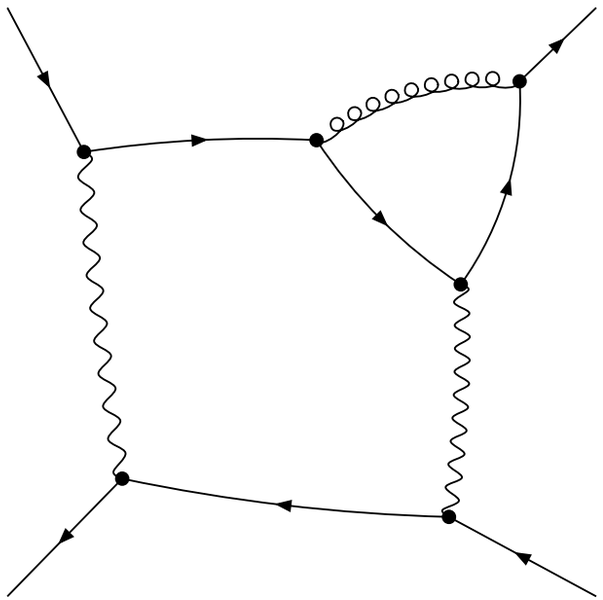
final

Denominator:

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



−1-9+15



−1+17

embedding 7 [1, 0, 1, −1]

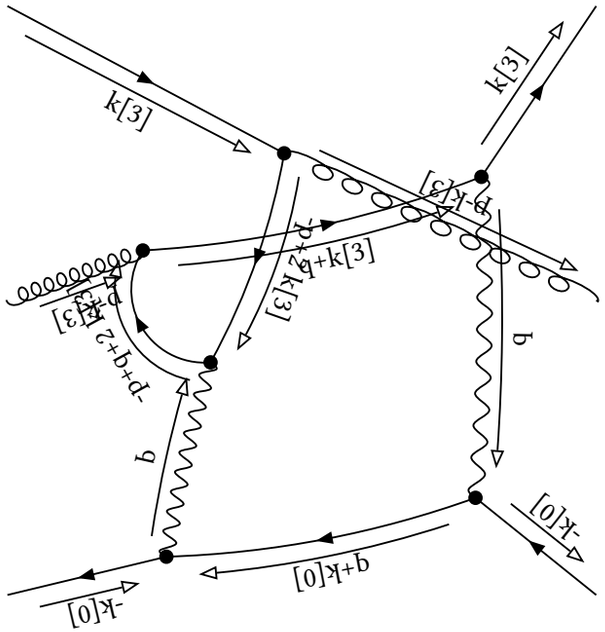
initial

Denominator:

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

Partial Fractioned Denominator:

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

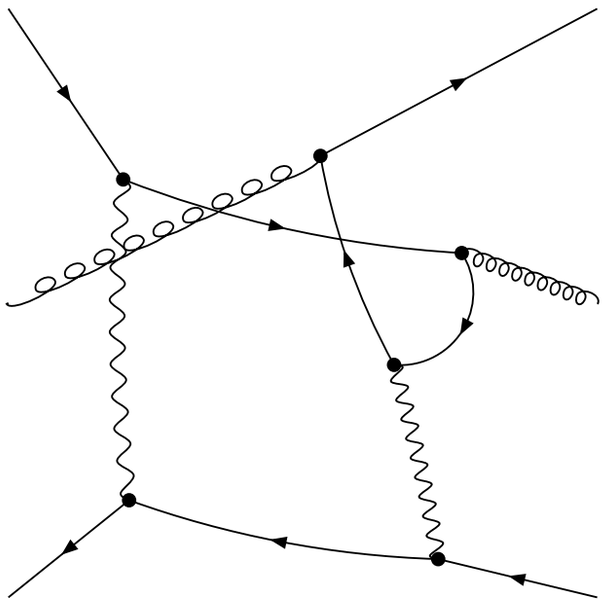


−3-9+13

final

Denominator:

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



−1-9+17

embedding 8 [1, 0, 1, 0]

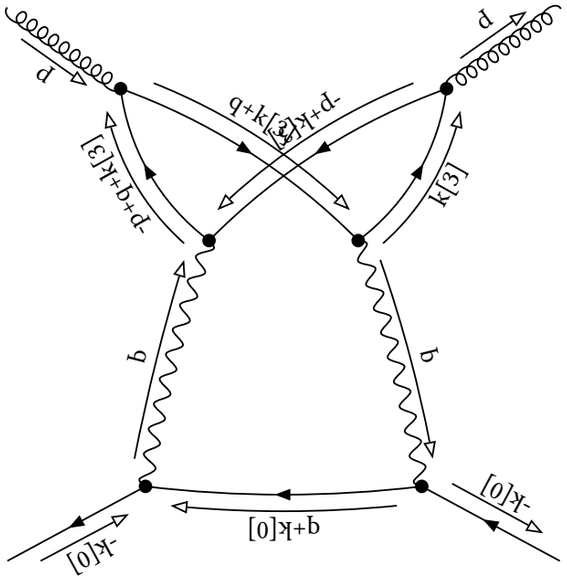
initial

Denominator:

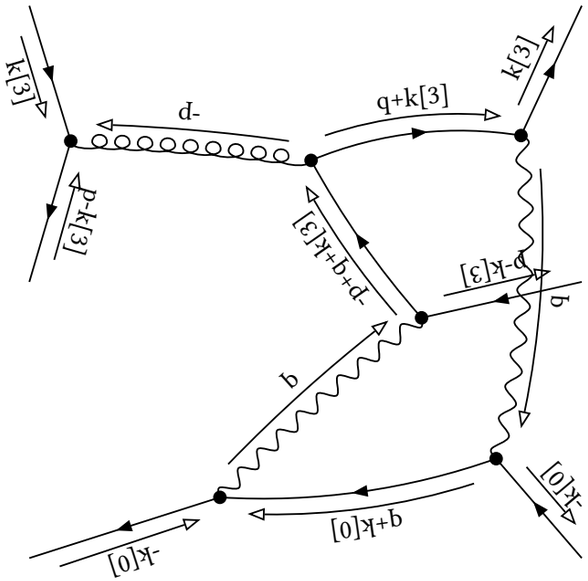
```
prop[0,q]^-2 prop[0,k[3]]^-1 prop[0,-p]^-1 prop[0,-p+k[3]]^-1
```

Partial Fractioned Denominator:

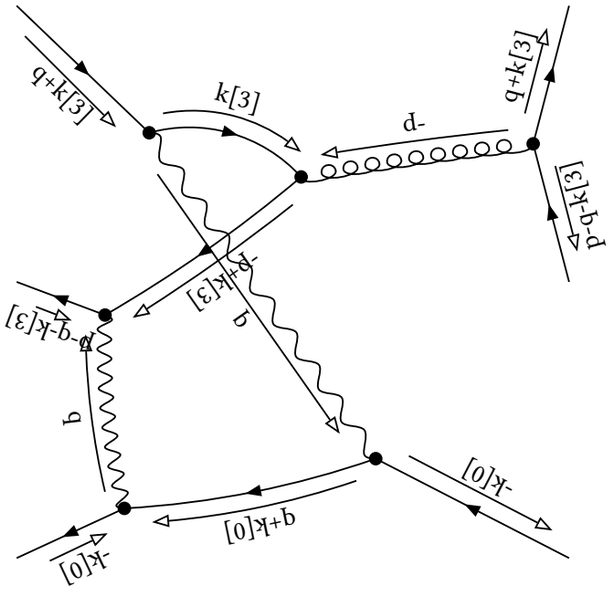
```
prop[0,k[3]]^-1 prop[0,-p+k[3]]^-1 dot[p,p]^-1 dot[q,q]^-2
```



−3-9



−3-11+13

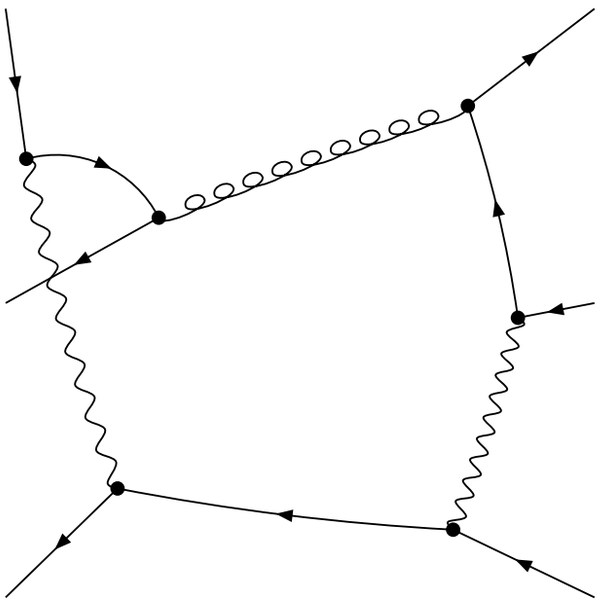


−3-15+17

final

Denominator:

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



−1-11+17

embedding 9 [1, 1, −1, 0]

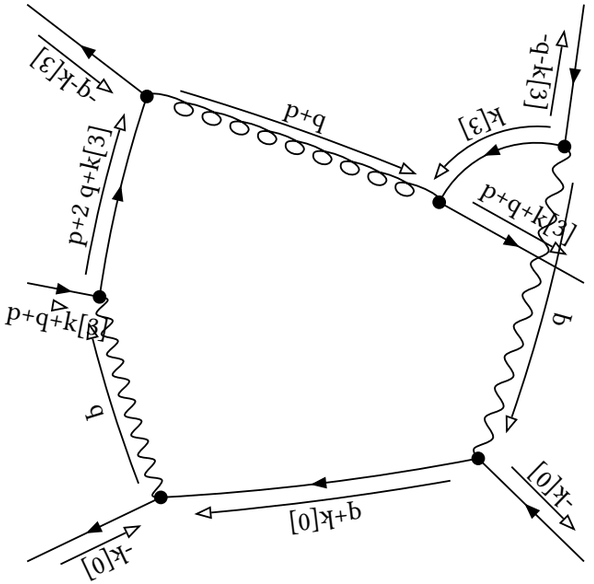
initial

Denominator:

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

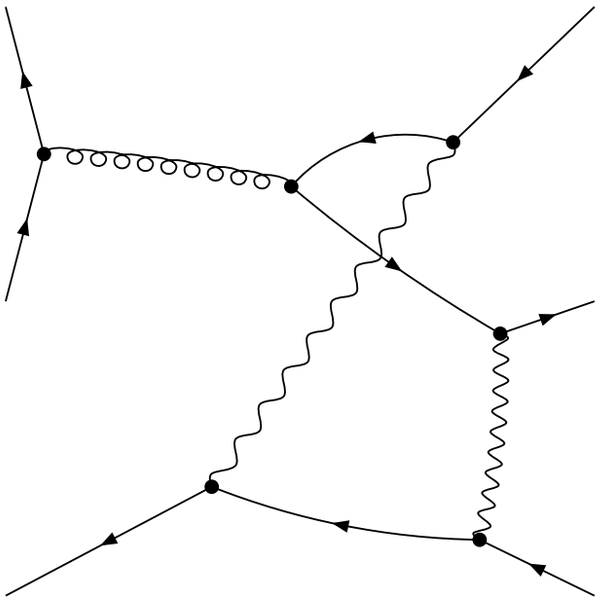


−3+11-17

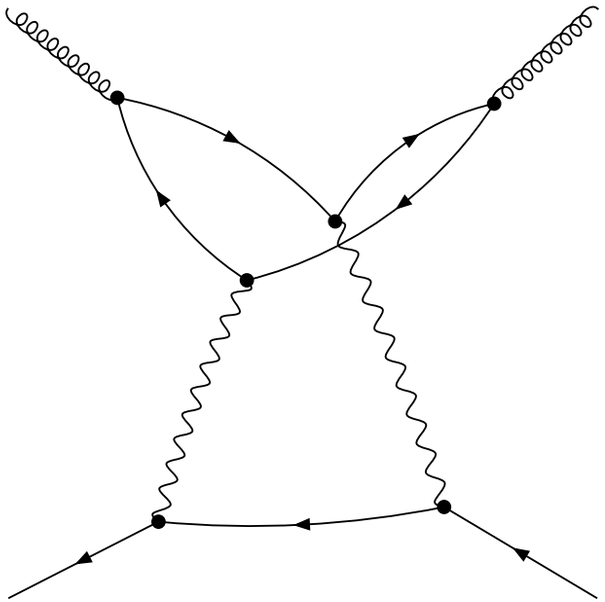
final

Denominator:

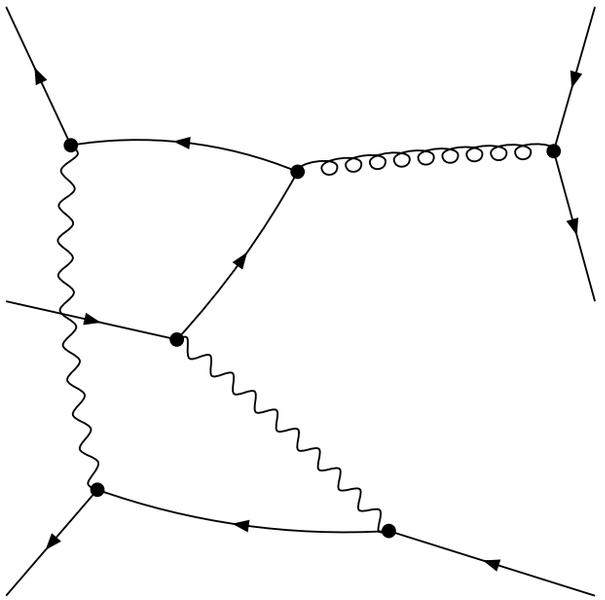
```
prop[0,p]^-1 prop[0,q]^-2 prop[0,k[3]]^-1 prop[0,p+k[3]]^-1
```



−1+15-17



−1+9



−1+11-13

embedding 10 [1, 1, −1, 1]

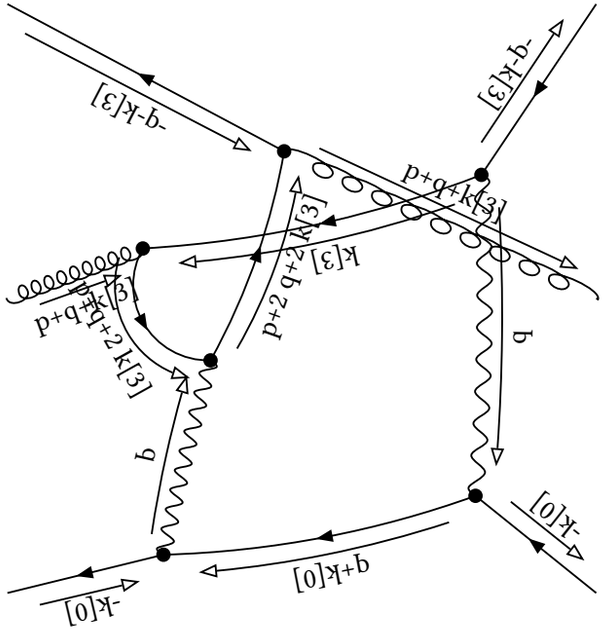
initial

Denominator:

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

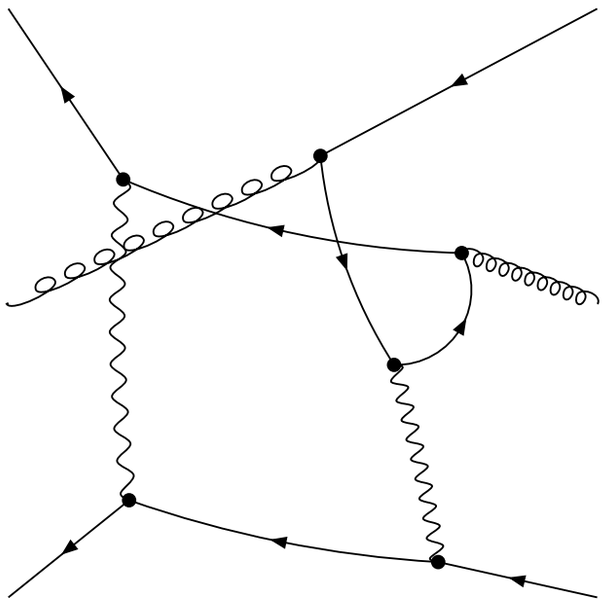


−3+9-17

final

Denominator:

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



−1+9-13

embedding 11 [1, 1, 0, 1]

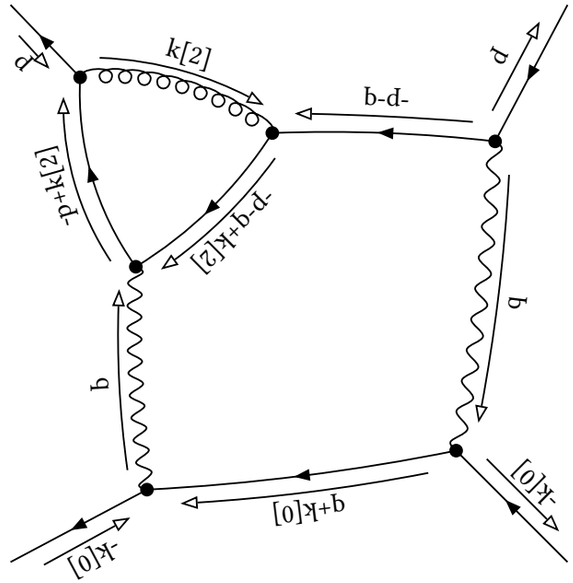
initial

Denominator:

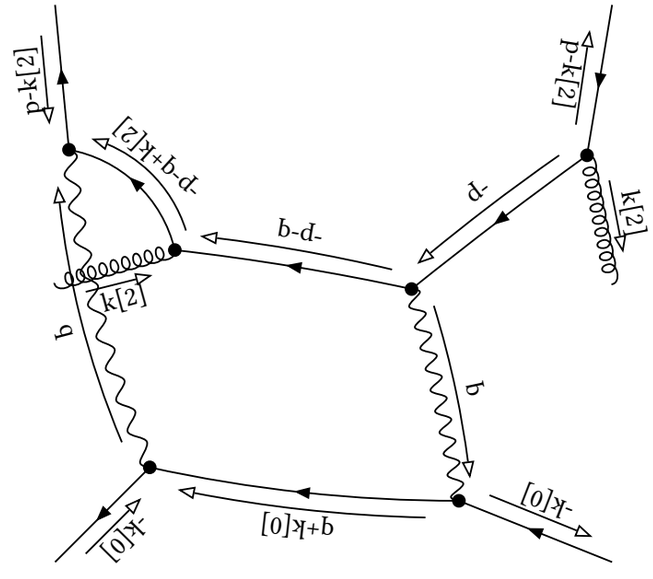
```
prop[0,q]^-2 prop[0,k[2]]^-1 prop[0,-p-q]^-1 prop[0,-p-q+k[2]]^-1
```

Partial Fractioned Denominator:

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



−3-17

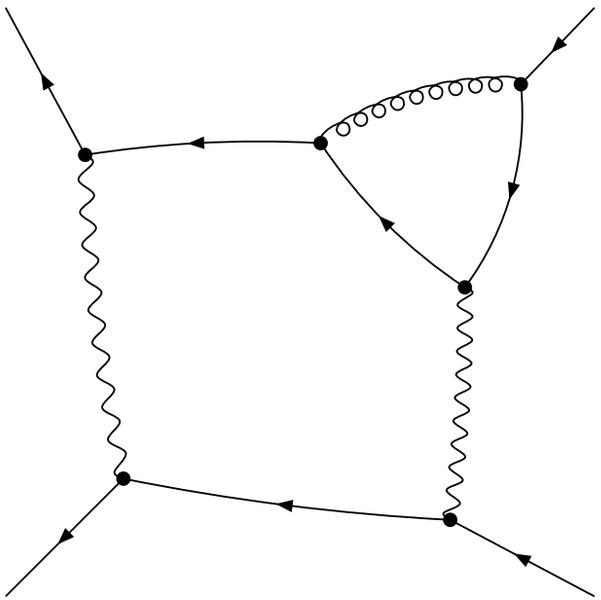


−3+9-15

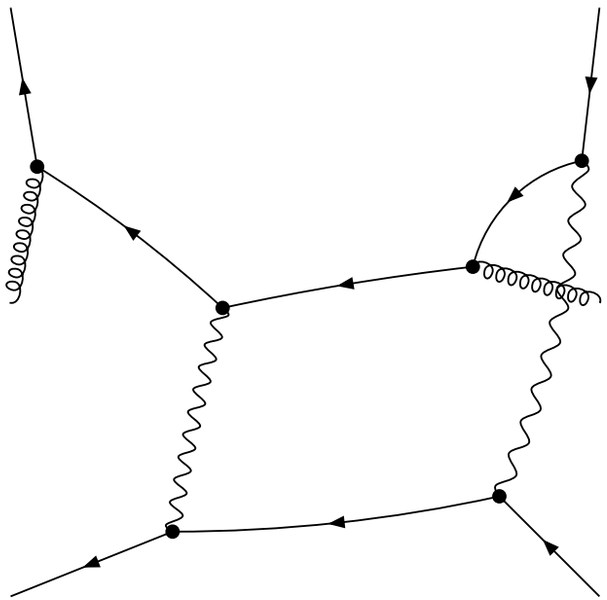
final

Denominator:

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



−1-13



−1+9-11

embedding 12 [1, 1, 1, 0]

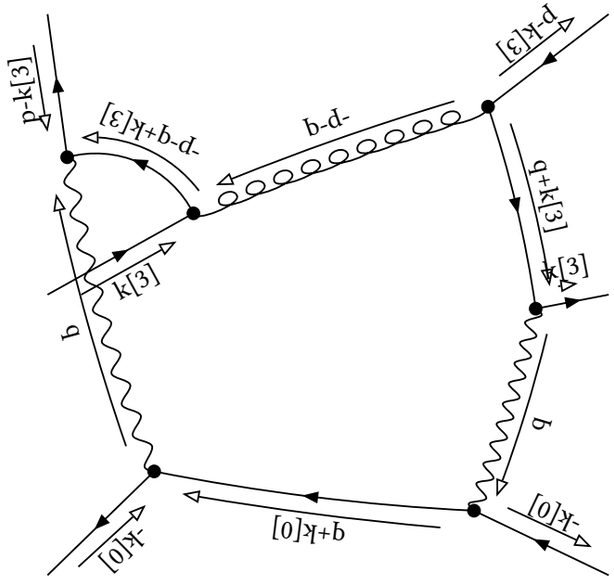
initial

Denominator:

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

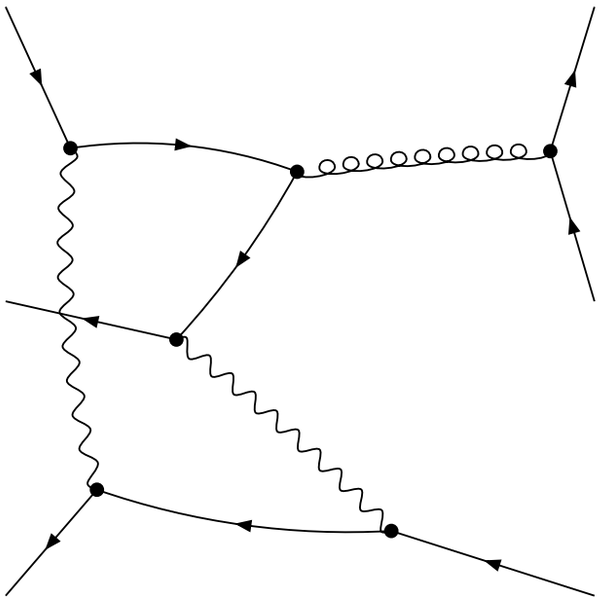


−3+13-15

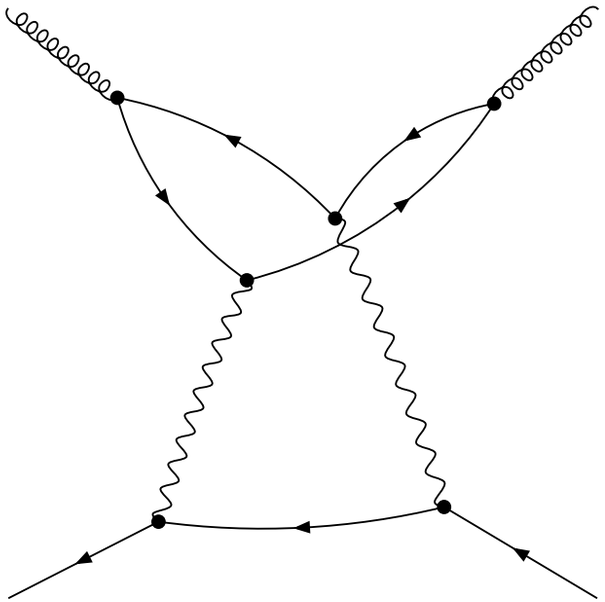
final

Denominator:

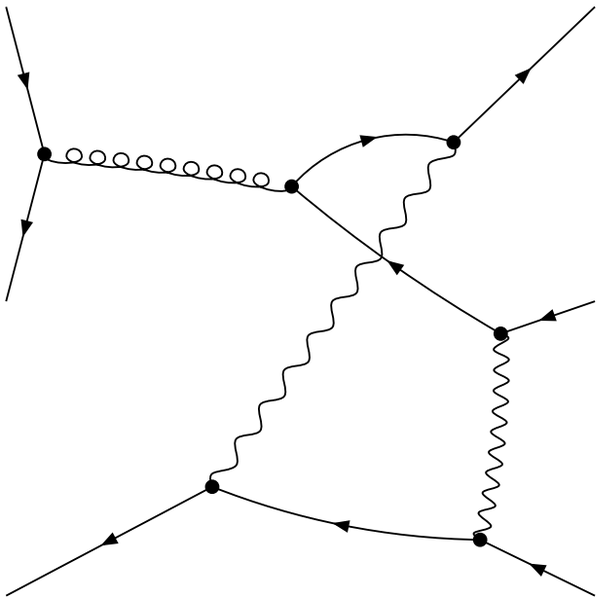
```
prop[0,q]^-2 prop[0,k[3]]^-1 prop[0,-p]^-1 prop[0,-p+k[3]]^-1
```



−1-15+17



−1-9



−1-11+13

embedding 13 [1, 1, 1, 1]

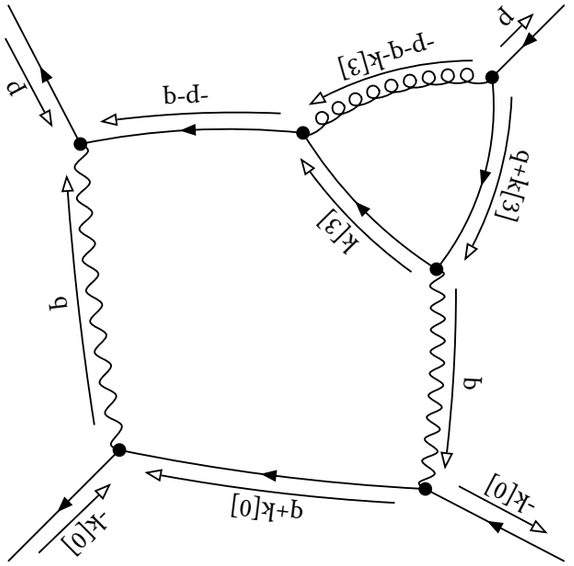
initial

Denominator:

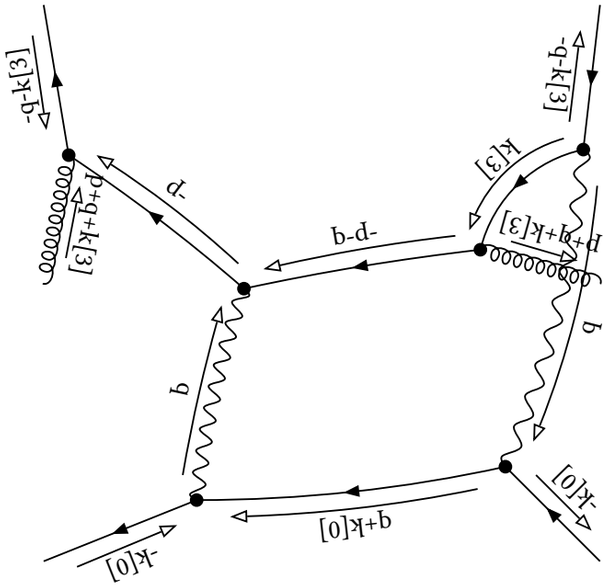
```
prop[0,q]^-2 prop[0,k[3]]^-1 prop[0,-p-q]^-1 prop[0,-p-q-k[3]]^-1
```

Partial Fractioned Denominator:

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



–3-15

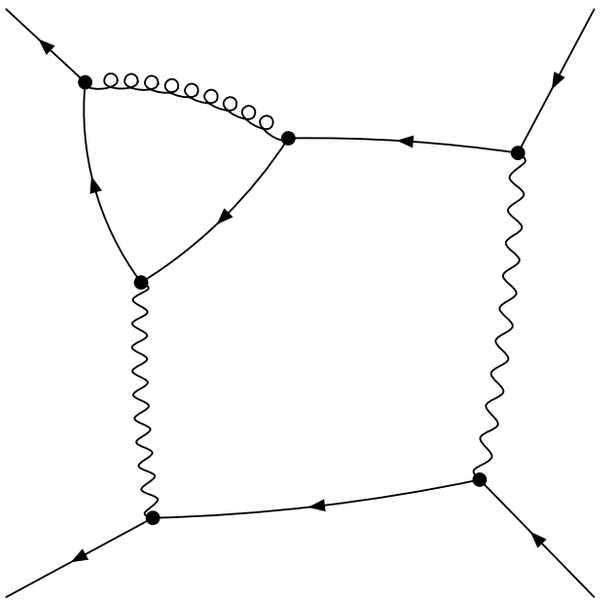


–3-9-17

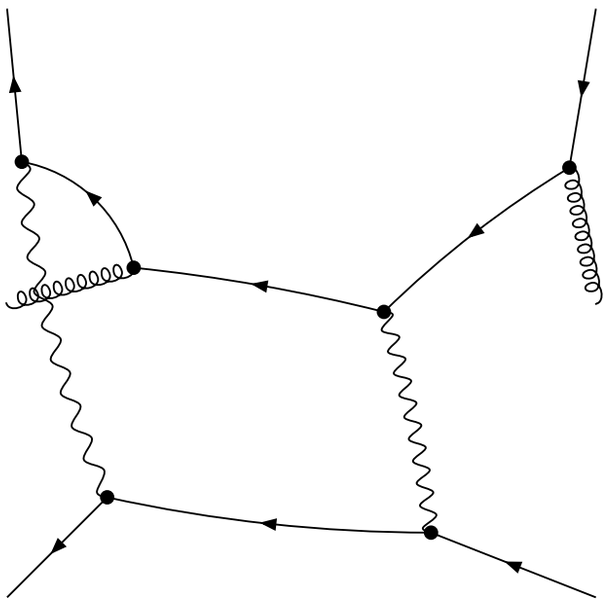
final

Denominator:

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



−1-11



−1-9-13

embedding 14 [1, 1, 1, 2]

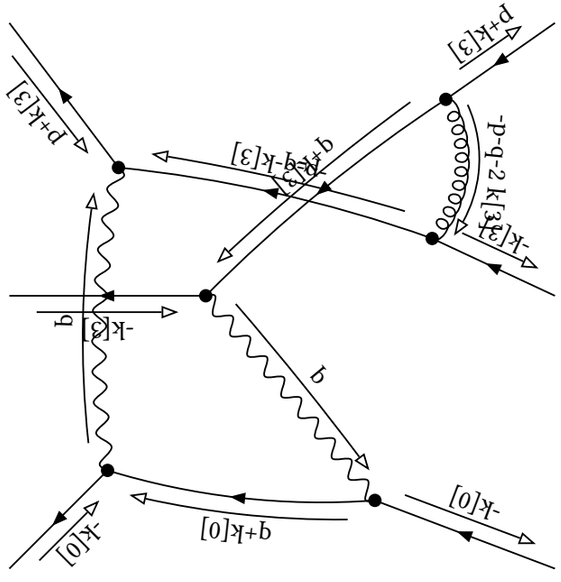
initial

Denominator:

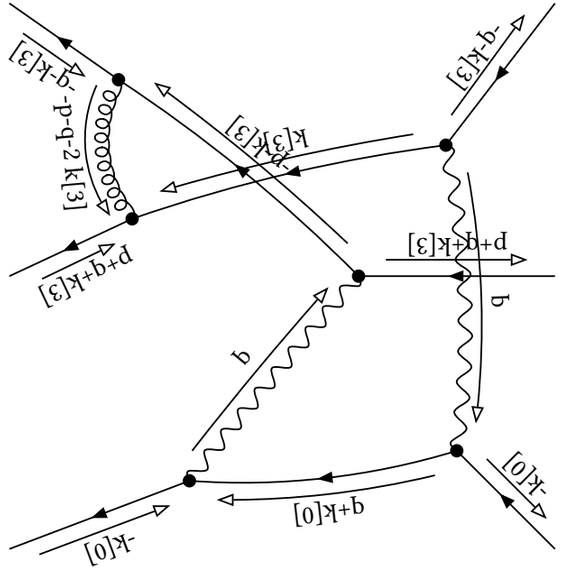
```
prop[0,q]^-2 prop[0,k[3]]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-q-2 k[3]]^-1
```

Partial Fractioned Denominator:

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



–3-13-15

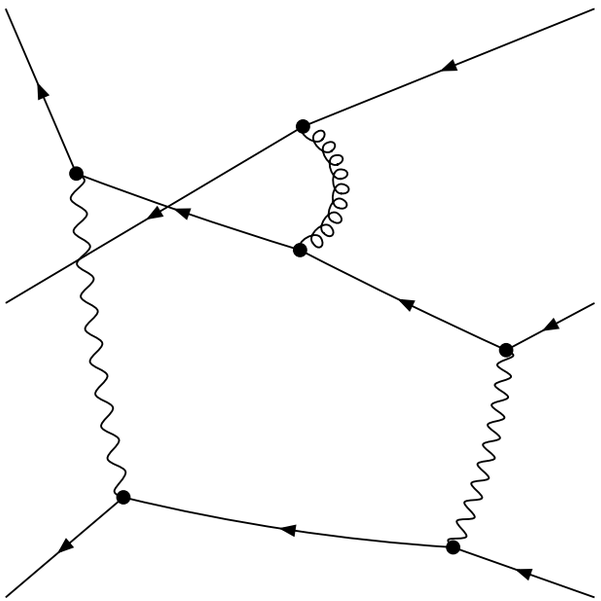


–3-11-17

final

Denominator:

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



−1-11-13

embedding 15 [1, 1, 2, 1]

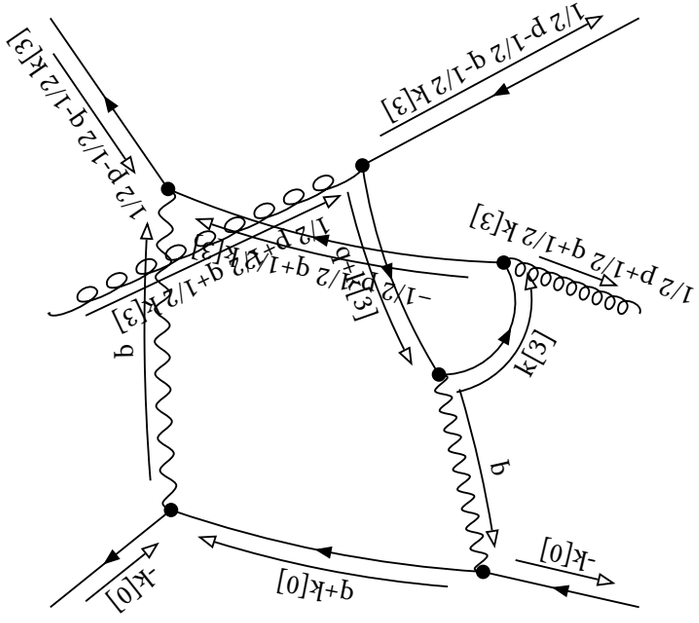
initial

Denominator:

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

Partial Fractioned Denominator:

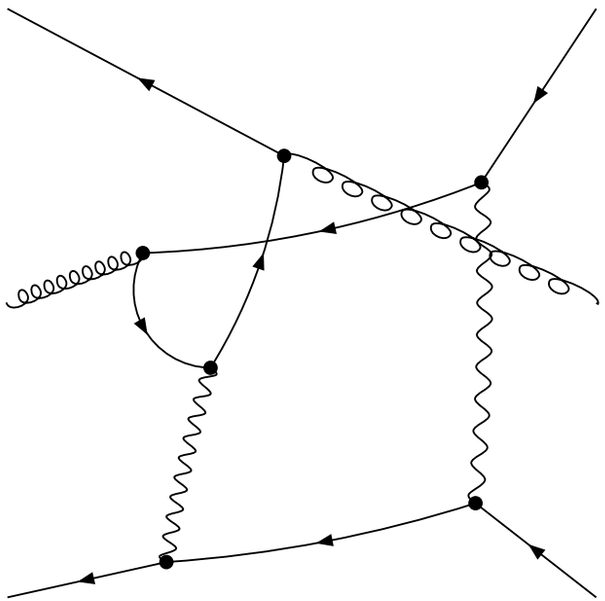
```
-2 (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-1/2 p-1/2 q+1/2 k[3]]^-1 dot[q,q]^-2
  -2 (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-1/2 p-1/2 q-1/2 k[3]]^-1 dot[q,q]^-2
  +(-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,-1/2 p-1/2 q+1/2 k[3]]^-1 prop[0,-1/2 p-1/2 q-1/2 k[3]]^-1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



final

Denominator:

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



−1-9-11

embedding 16 [1, 2, 1, 2]

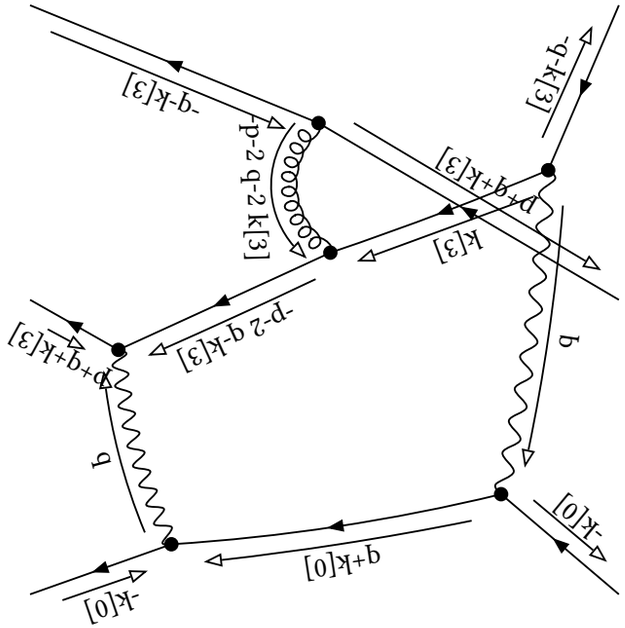
initial

Denominator:

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

Partial Fractioned Denominator:

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

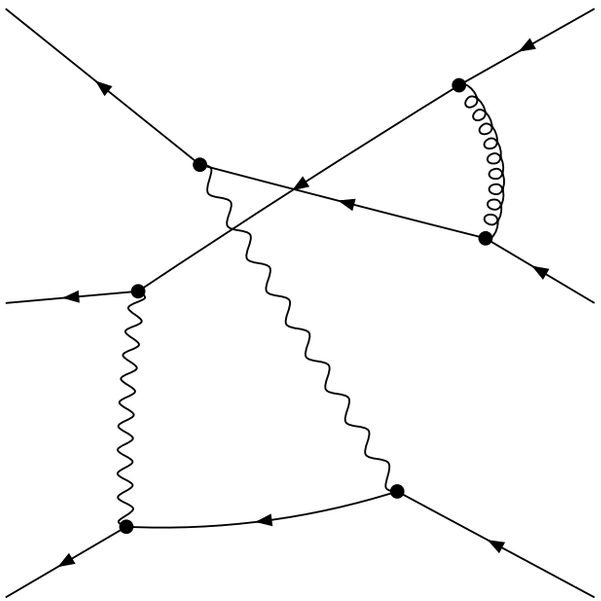


–3-15-17

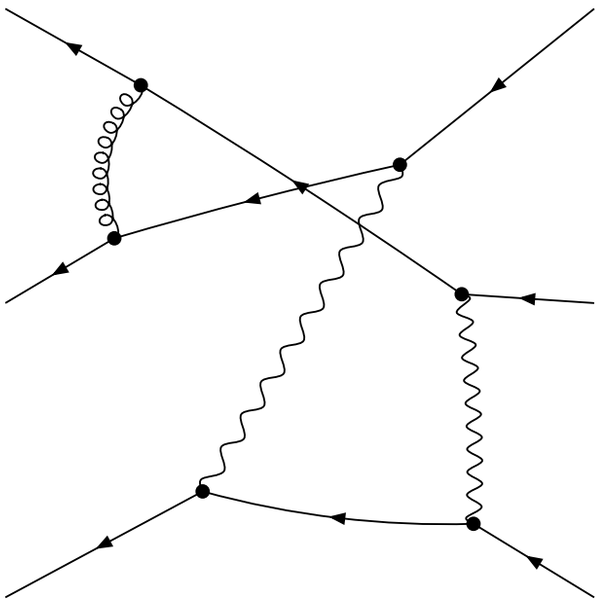
final

Denominator:

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



−1-13-15



−1-11-17