embedding 1 [2, 0, −2, −4] with multiplicity 1

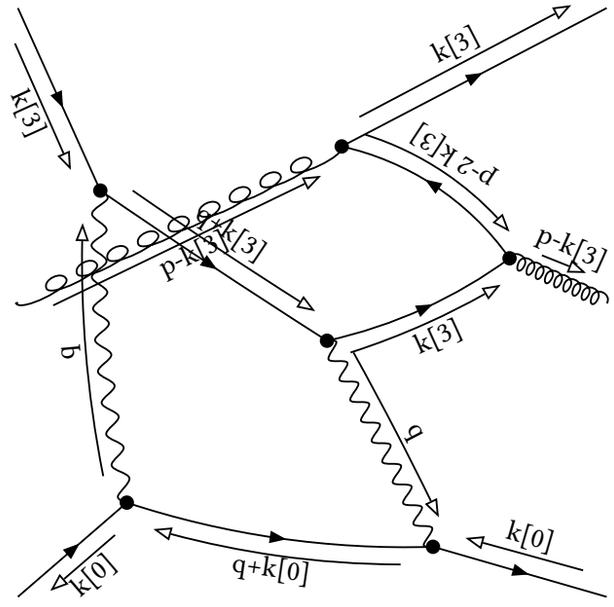
initial

Denominator:

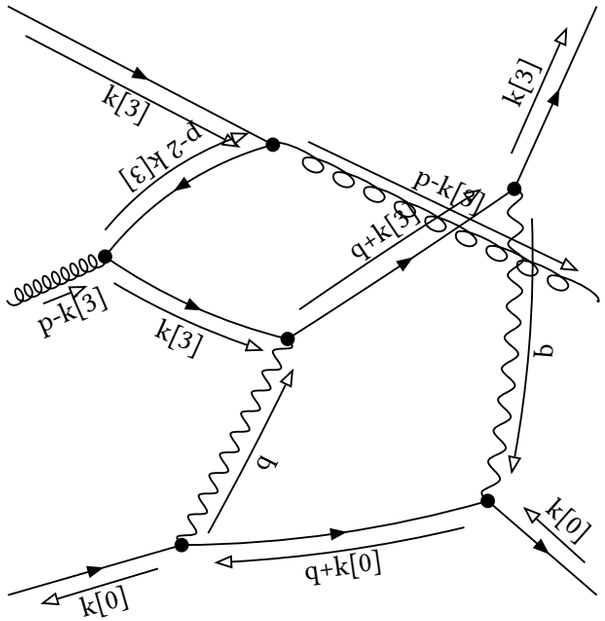
```
prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p-2 k[3]]^-1
```

Partial Fractioned Denominator:

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



+2-3+10-11+14-15

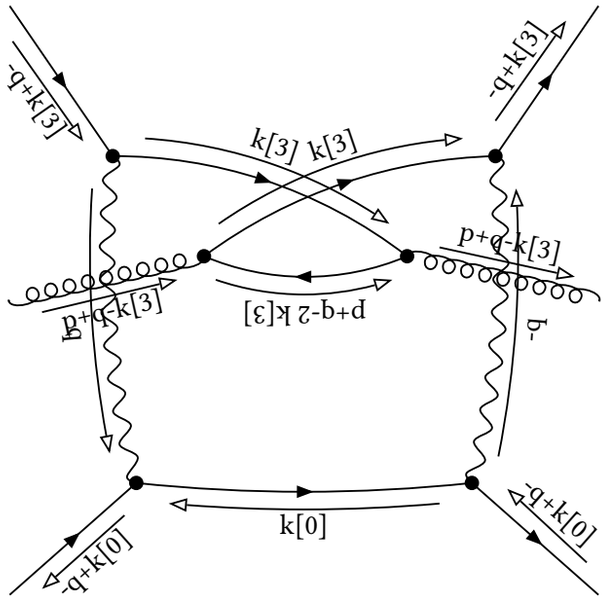


+2-3+10-11+12-13

final

Denominator:

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



+0-1+10-11+16-17

embedding 2 [2, 0, −2, −2] with multiplicity 1

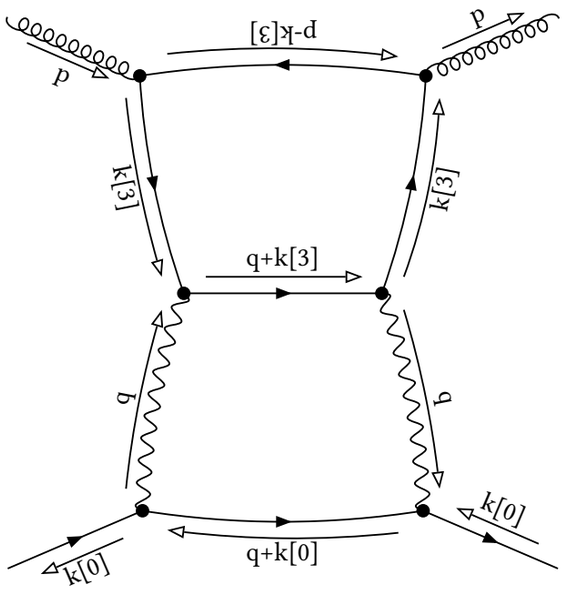
initial

Denominator:

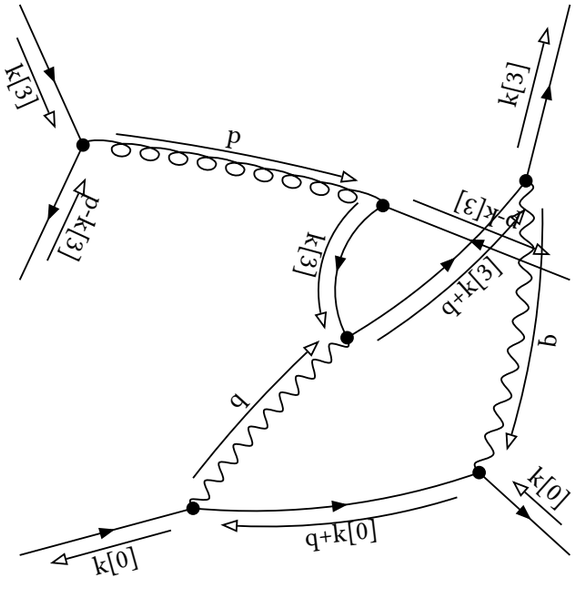
```
prop[0,p]^-1 prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1
```

Partial Fractioned Denominator:

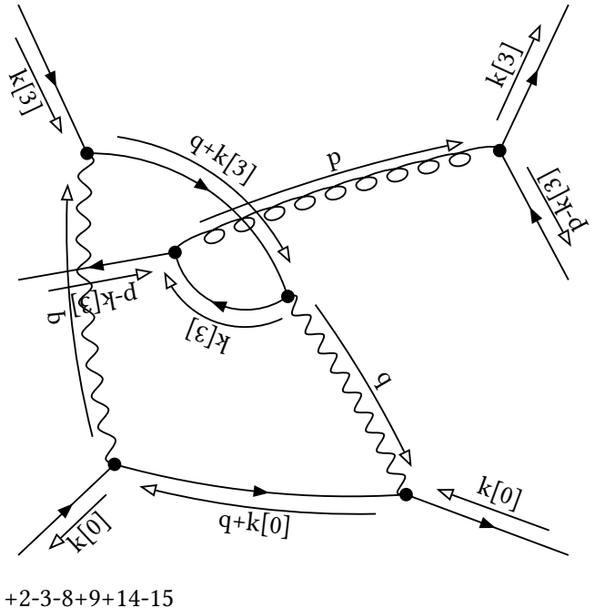
```
prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 dot[p,p]^-1
```



+2-3+10-11



+2-3-8+9+12-13

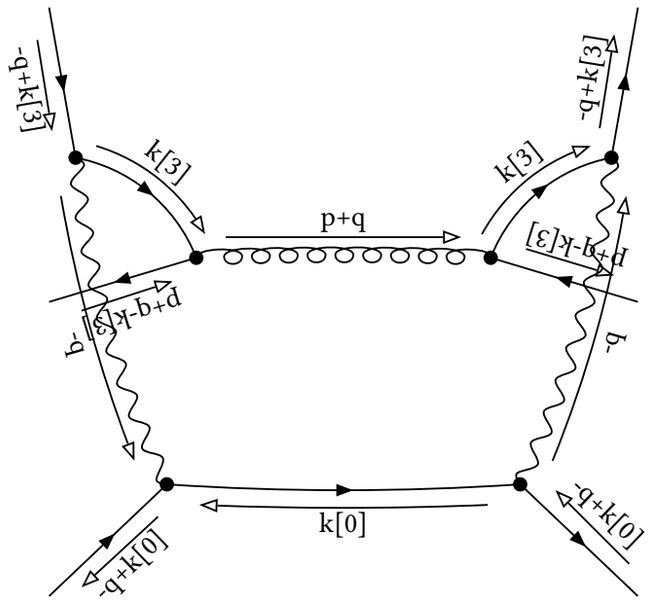


+2-3-8+9+14-15

final

Denominator:

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



+0-1-8+9+16-17

embedding 3 [2, 0, 0, −2] with multiplicity 1

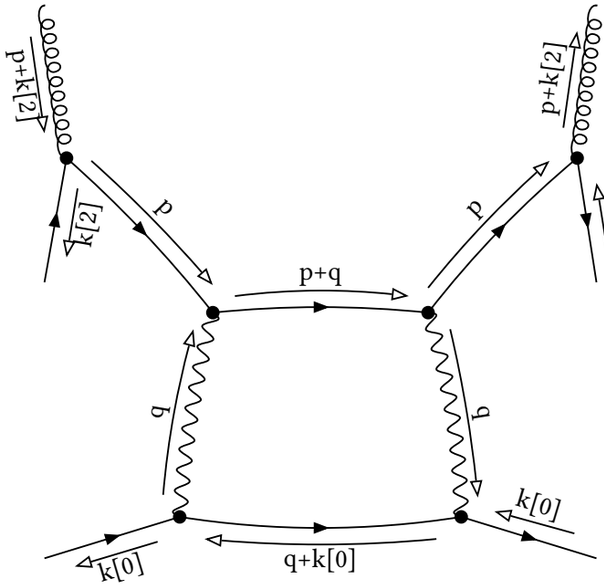
initial

Denominator:

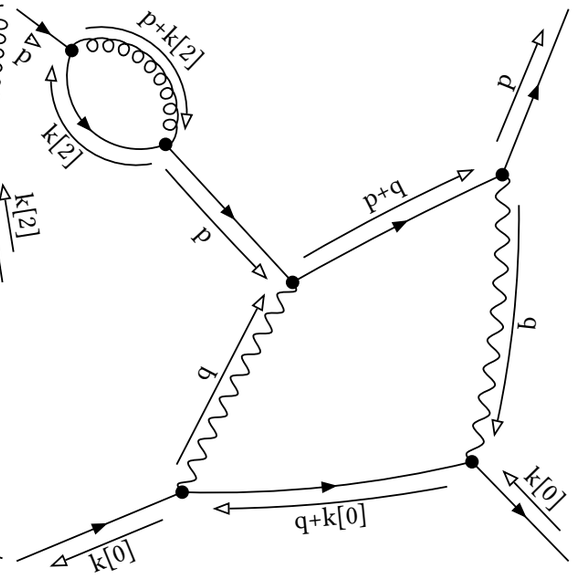
```
prop[0,p]^-2 prop[0,k[2]]^-1 prop[0,p+q]^-1 prop[0,p+k[2]]^-1
```

Partial Fractioned Denominator:

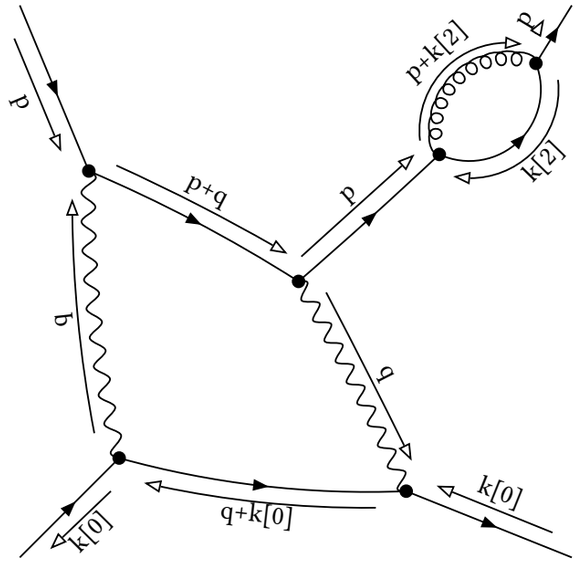
```
(dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[2]]^-1 prop[0,p+k[2]]^-1 dot[p,p]^-2
```



+2-3+8-9+10-11



+2-3+12-13

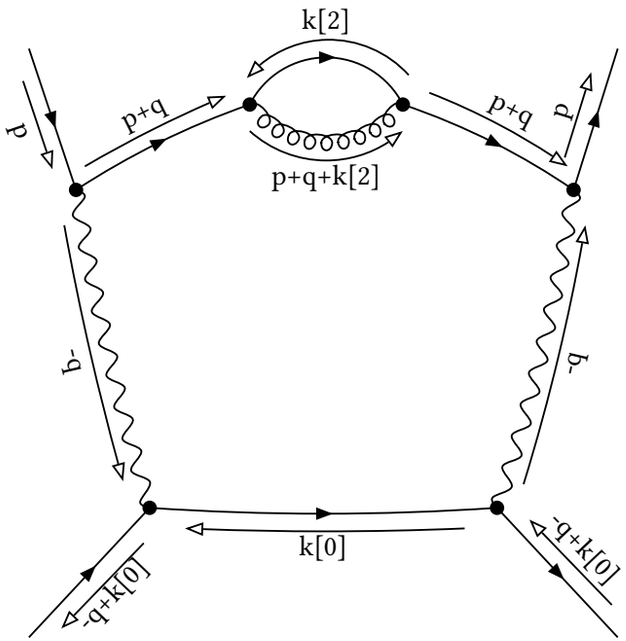


+2-3+14-15

final

Denominator:

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



+0-1+16-17

embedding 4 [2, 0, 2, −2] with multiplicity 1

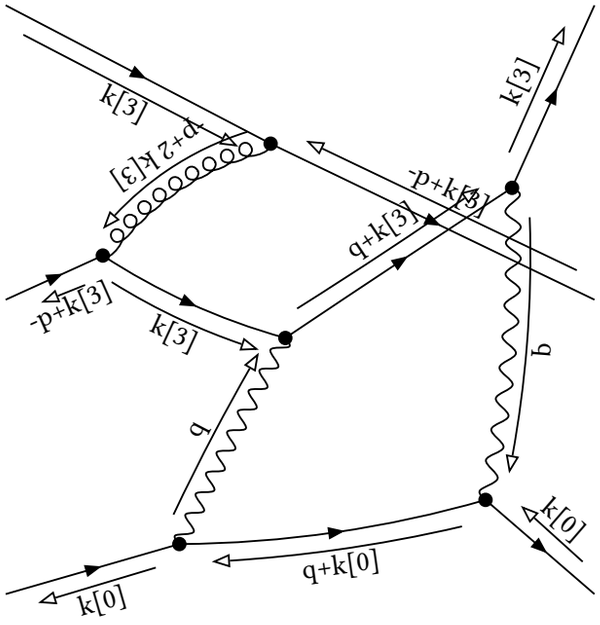
initial

Denominator:

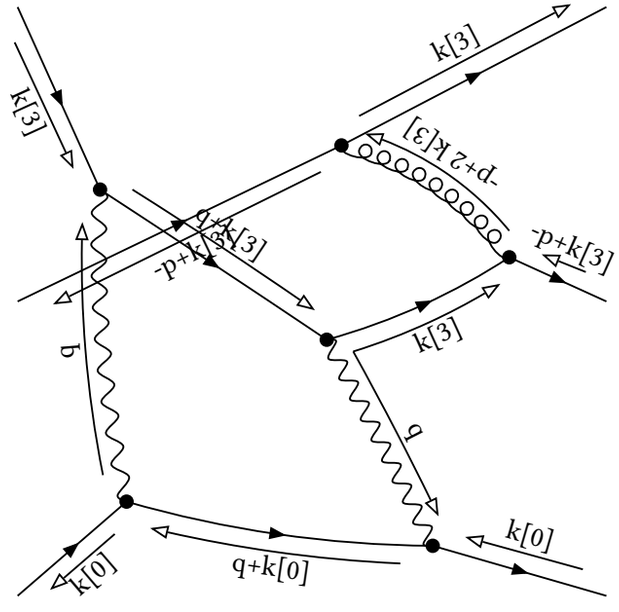
```
prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1 prop[0,-p+2 k[3]]^-1
```

Partial Fractioned Denominator:

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



+2-3+8-9+12-13

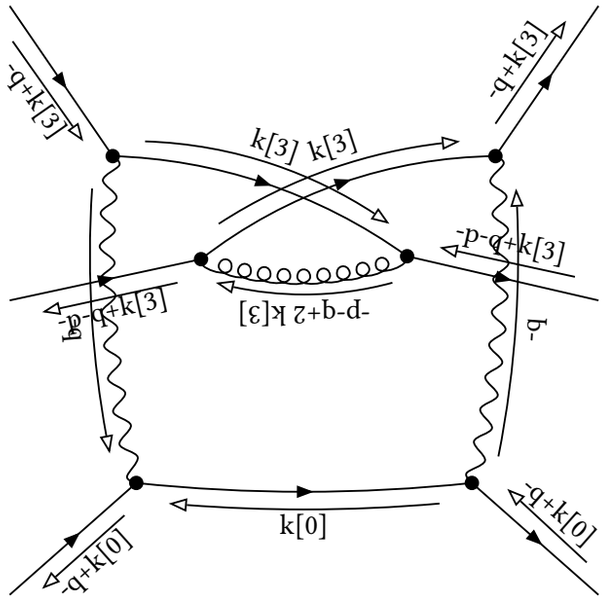


+2-3+8-9+14-15

final

Denominator:

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



+0-1+8-9+16-17

embedding 5 [2, 0, 2, 0] with multiplicity 1

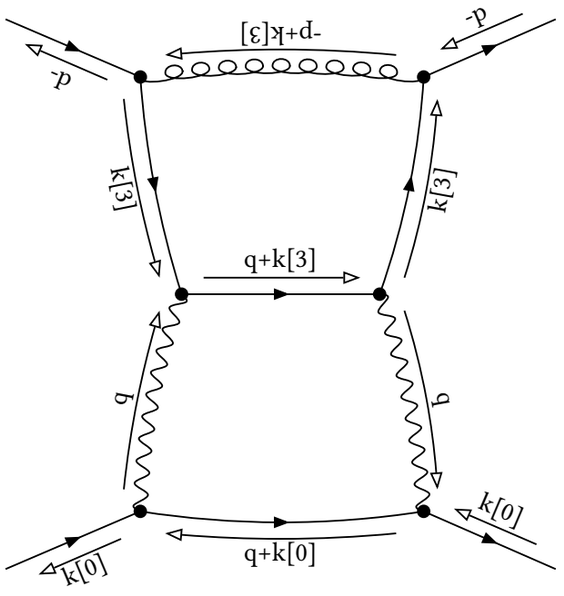
initial

Denominator:

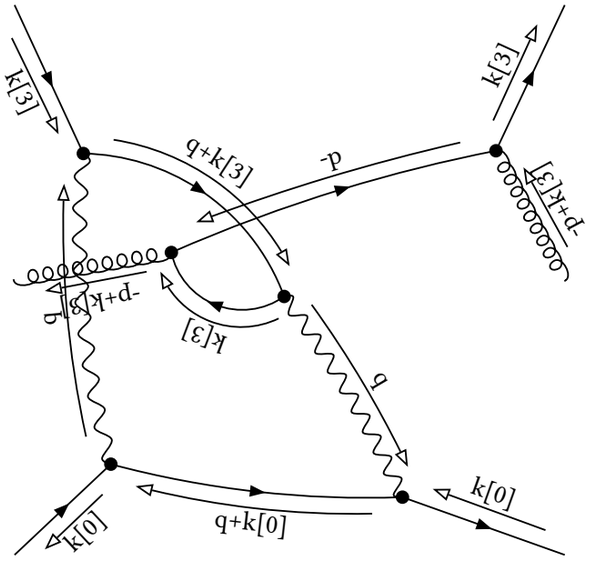
```
prop[0,k[3]]^-2 prop[0,-p]^-1 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1
```

Partial Fractioned Denominator:

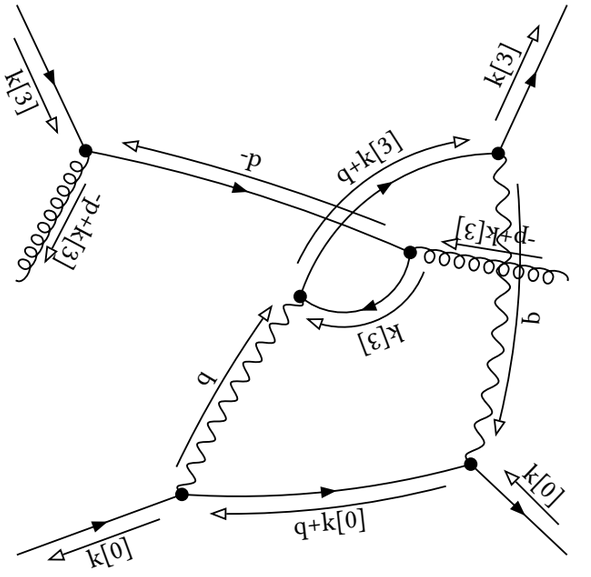
```
prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1 dot[p,p]^-1
```



+2-3+8-9



+2-3-10+11+14-15

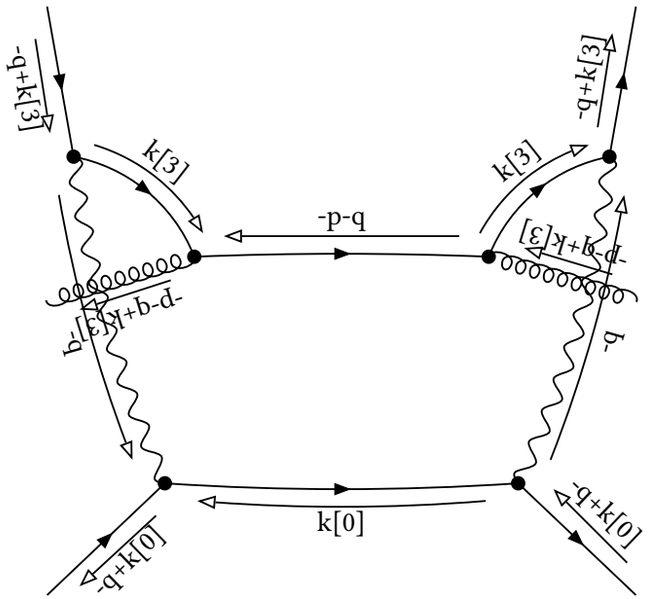


+2-3-10+11+12-13

final

Denominator:

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



+0-1-10+11+16-17

embedding 6 [2, 2, −2, 0] with multiplicity 1

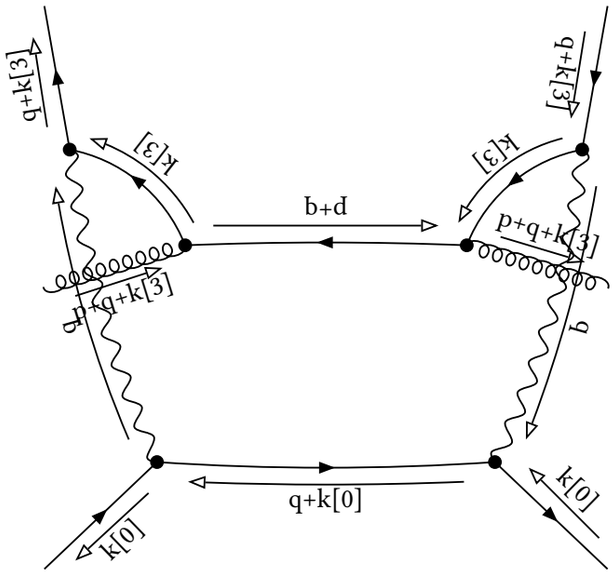
initial

Denominator:

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

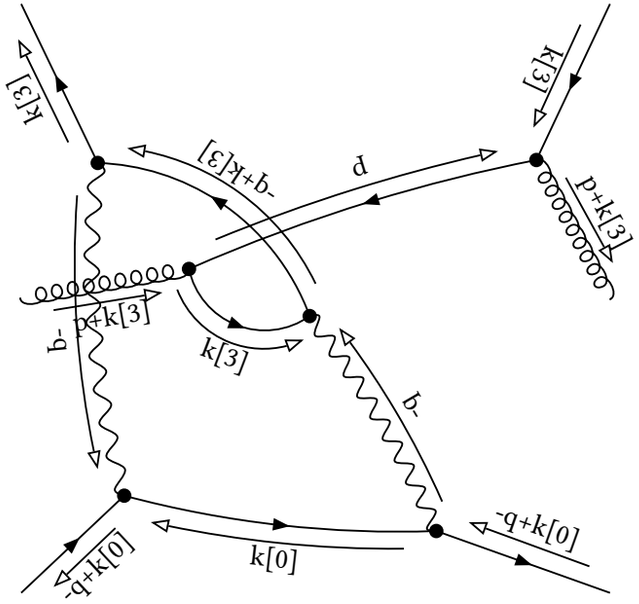


+2-3+10-11-16+17

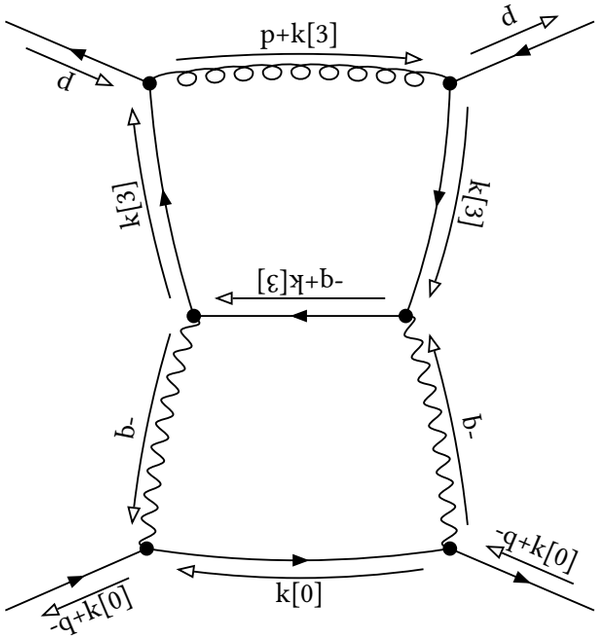
final

Denominator:

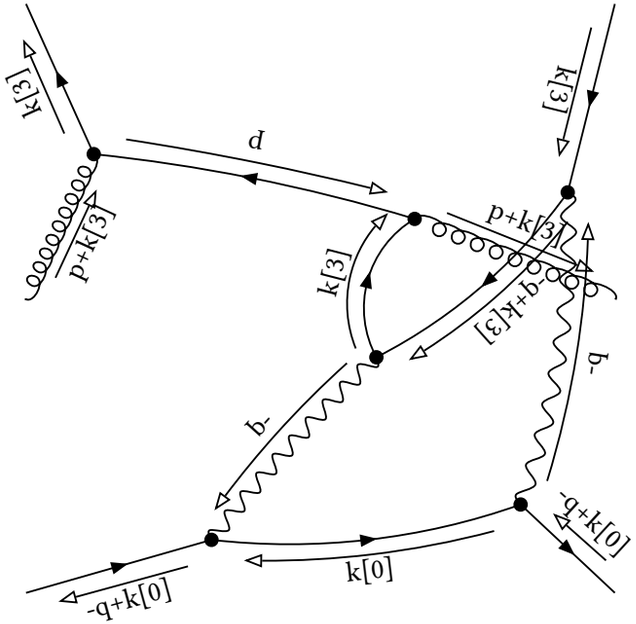
```
prop[0,p]^-1 prop[0,k[3]]^-2 prop[0,p+k[3]]^-1 prop[0,-q+k[3]]^-1
```



+0-1+10-11-12+13



+0-1-8+9



+0-1+10-11-14+15

embedding 7 [2, 2, −2, 2] with multiplicity 1

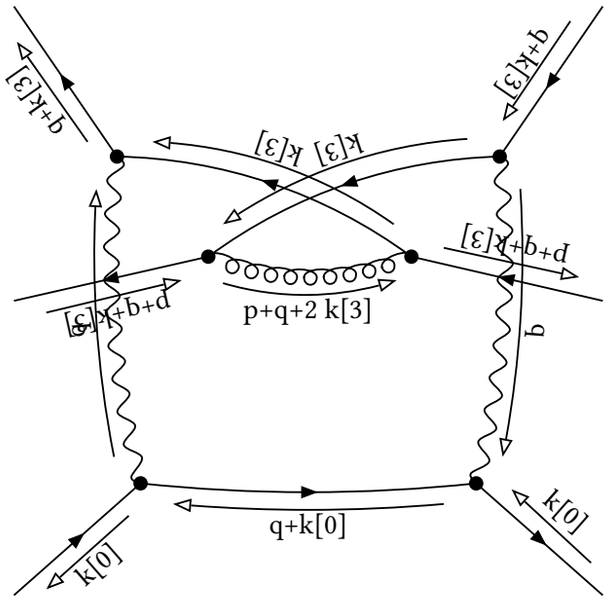
initial

Denominator:

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

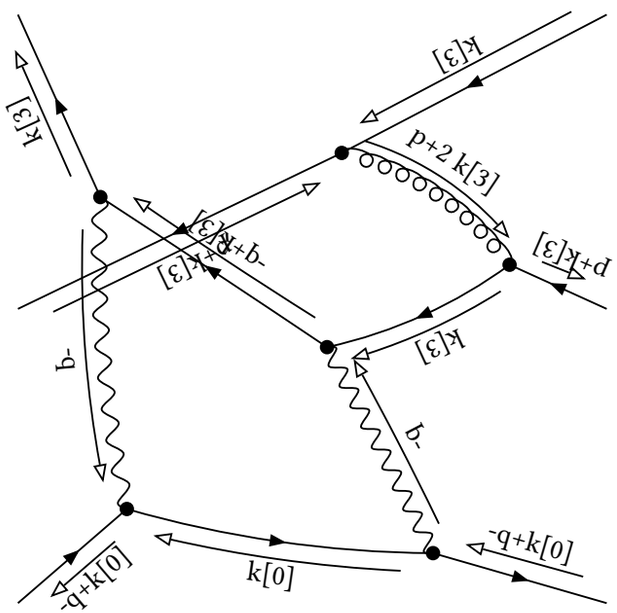


+2-3-8+9-16+17

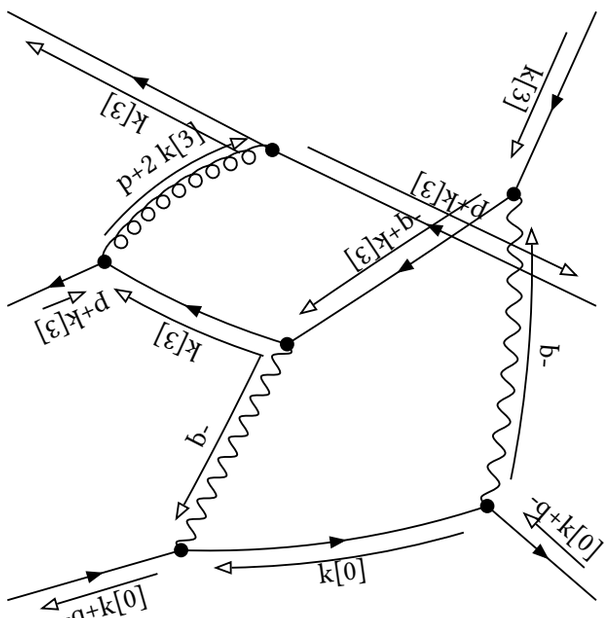
final

Denominator:

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



+0-1-8+9-12+13



+0-1-8+9-14+15

embedding 8 [2, 2, 0, 2] with multiplicity 1

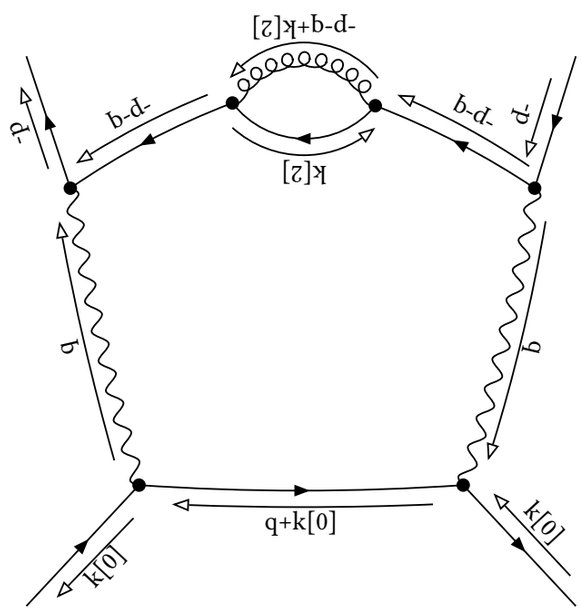
initial

Denominator:

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

Partial Fractioned Denominator:

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

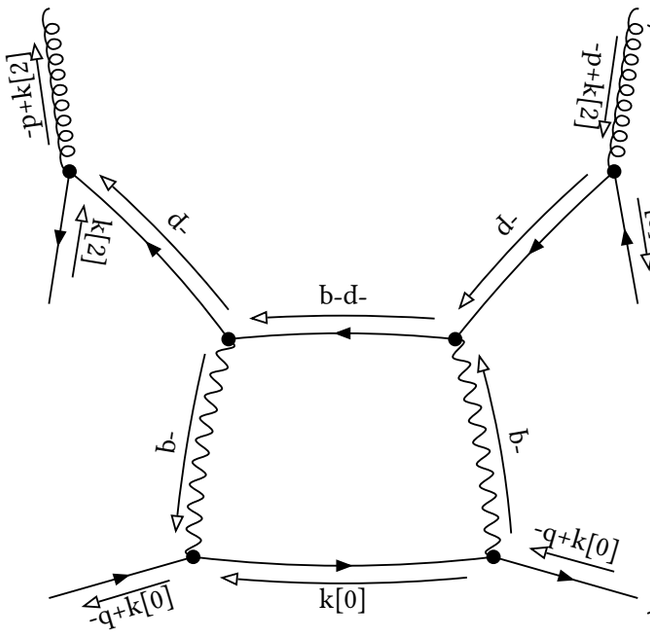


+2-3-16+17

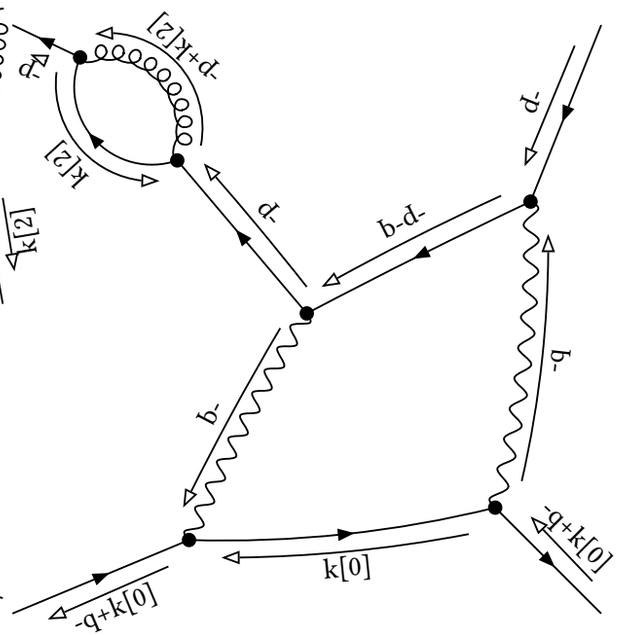
final

Denominator:

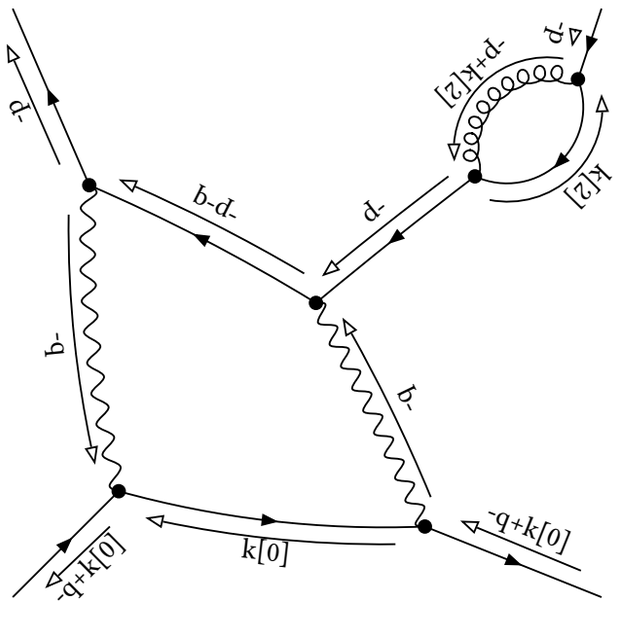
```
prop[0,k[2]]^-1 prop[0,-p]^-2 prop[0,-p+k[2]]^-1 prop[0,-p-q]^-1
```



+0-1-8+9-10+11



+0-1-14+15



+0-1-12+13

embedding 9 [2, 2, 2, 2] with multiplicity 1

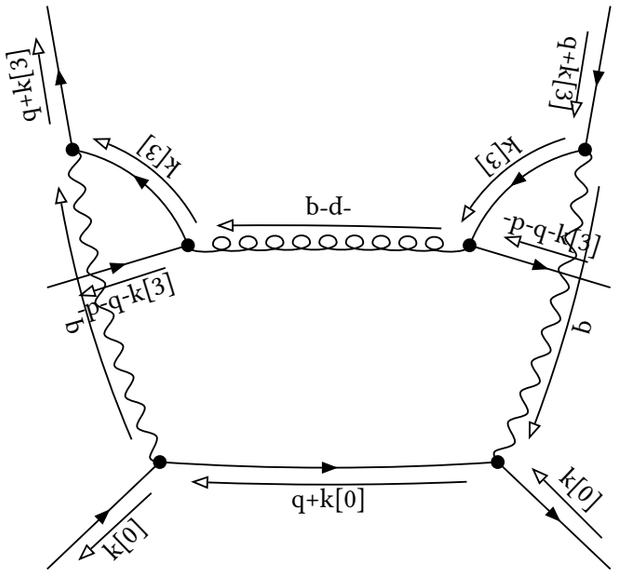
initial

Denominator:

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

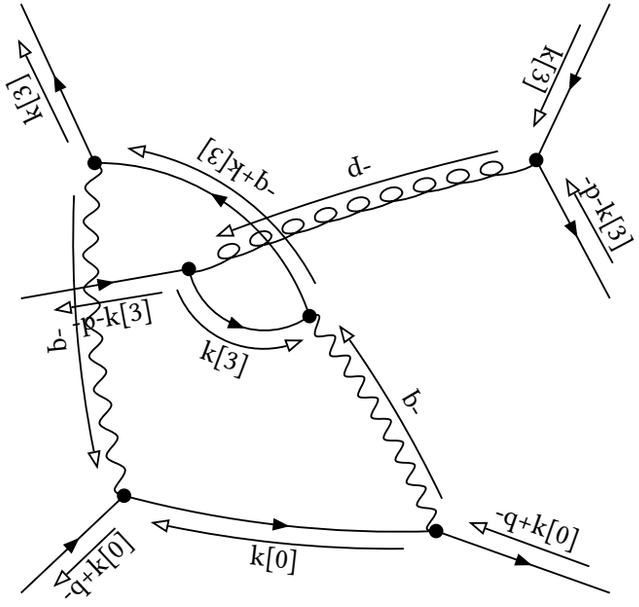


+2-3+8-9-16+17

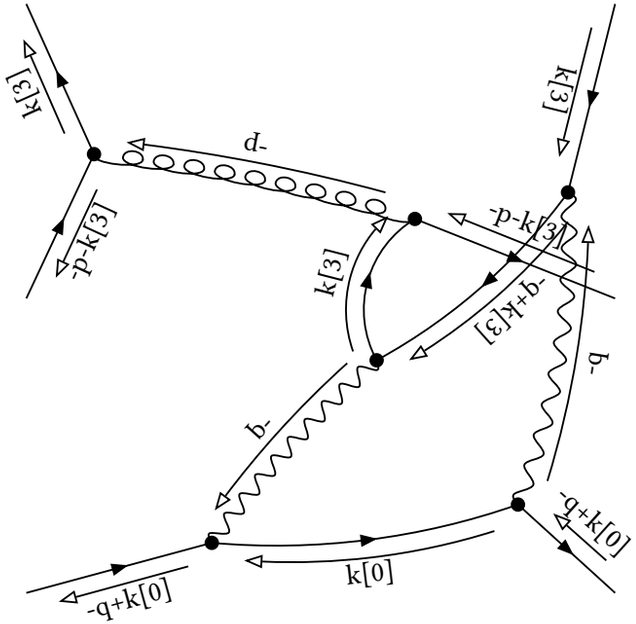
final

Denominator:

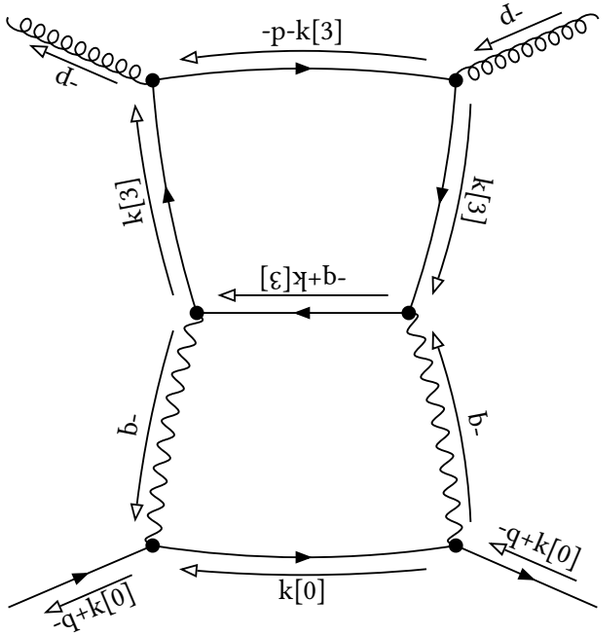
```
prop[0,k[3]]^-2 prop[0,-p]^-1 prop[0,-q+k[3]]^-1 prop[0,-p-k[3]]^-1
```



+0-1+8-9-12+13



+0-1+8-9-14+15



+0-1-10+11

embedding 10 [2, 2, 2, 4] with multiplicity 1

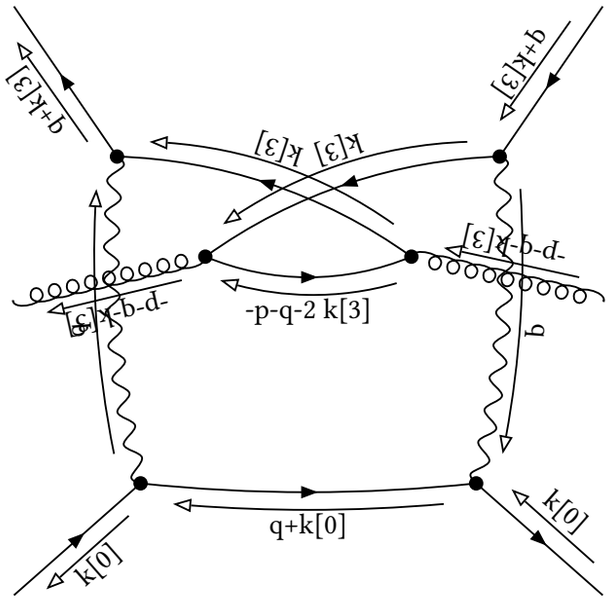
initial

Denominator:

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

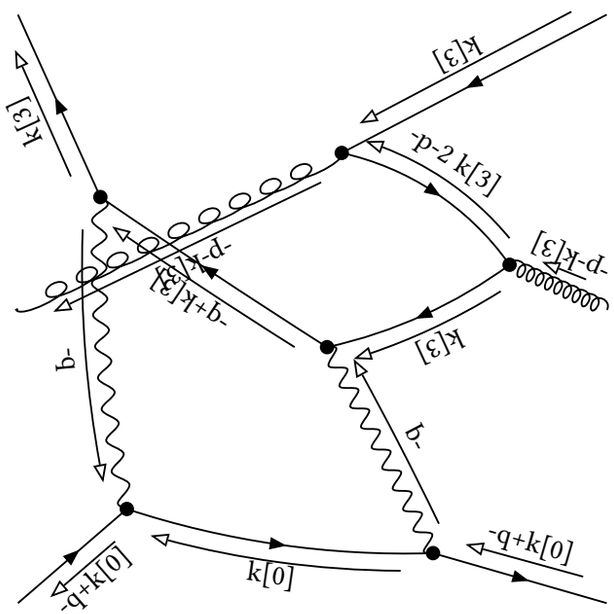


+2-3-10+11-16+17

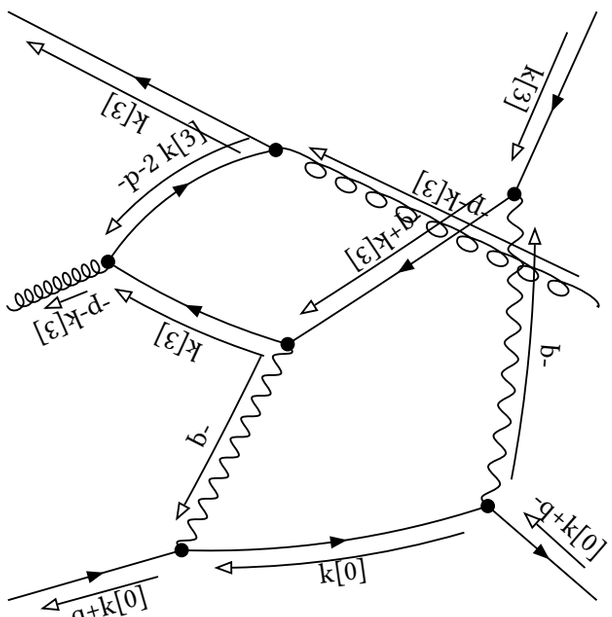
final

Denominator:

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



+0-1-10+11-12+13



+0-1-10+11-14+15