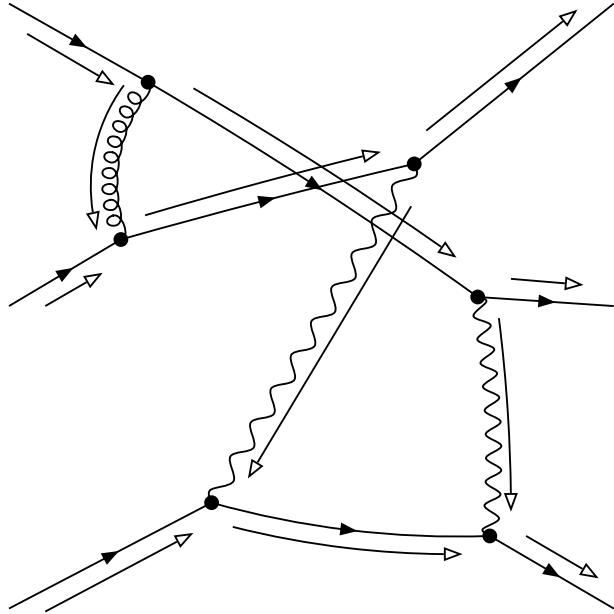


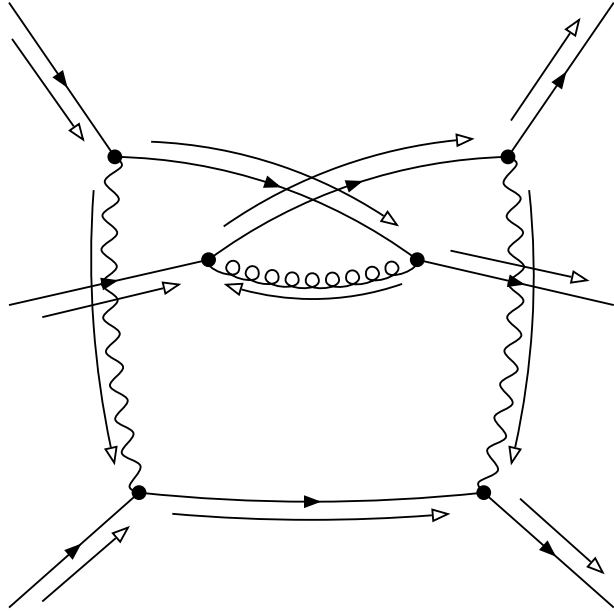
graph 1



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg  
{ pdg: 11 }]
```

```
AutG(1)^-1*ExternalFermionOrderingSign(1)*AntiFermionSpinSumSign(1)*NumeratorIndependentSymmetryGrouping(2)
```

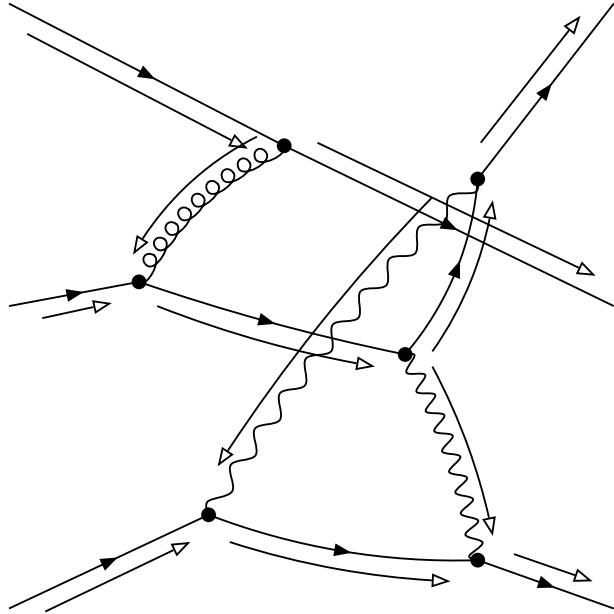
graph 2



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg  
{ pdg: 11 }]
```

```
AutG(1)^-1*ExternalFermionOrderingSign(1)*AntiFermionSpinSumSign(1)*NumeratorIndependentSymmetryGrouping(2)
```

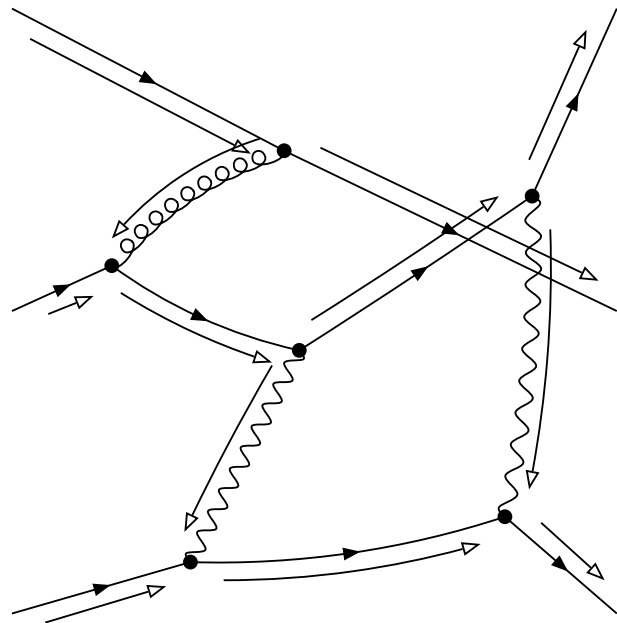
graph 3



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg  
{ pdg: 11 }]
```

```
AutG(1)^-1*ExternalFermionOrderingSign(1)*AntiFermionSpinSumSign(1)*NumeratorIndependentSymmetryGrouping(2)
```

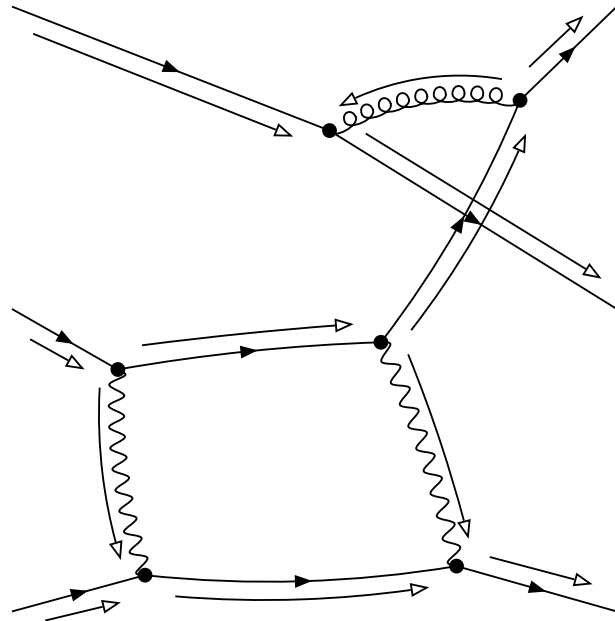
graph 4



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg  
{ pdg: 11 }]
```

```
AutG(1)^-1*ExternalFermionOrderingSign(1)*AntiFermionSpinSumSign(1)*NumeratorIndependentSymmetryGrouping(2)
```

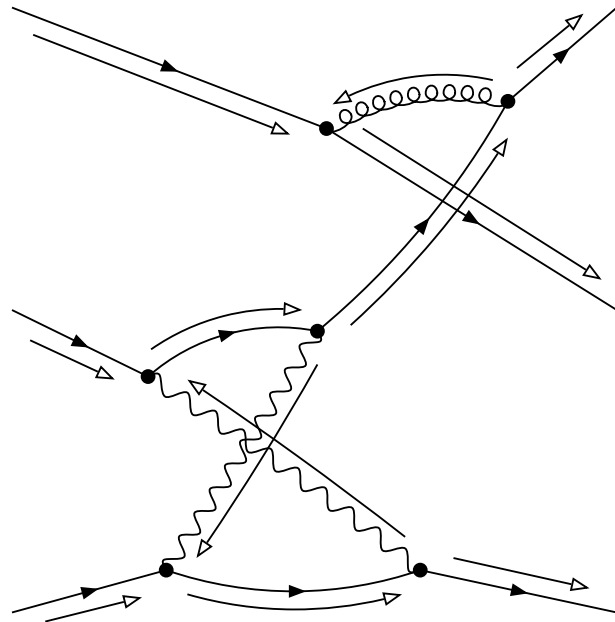
graph 5



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg  
{ pdg: 11 }]
```

```
AutG(1)^-1*ExternalFermionOrderingSign(1)*AntiFermionSpinSumSign(1)*NumeratorIndependentSymmetryGrouping(2)
```

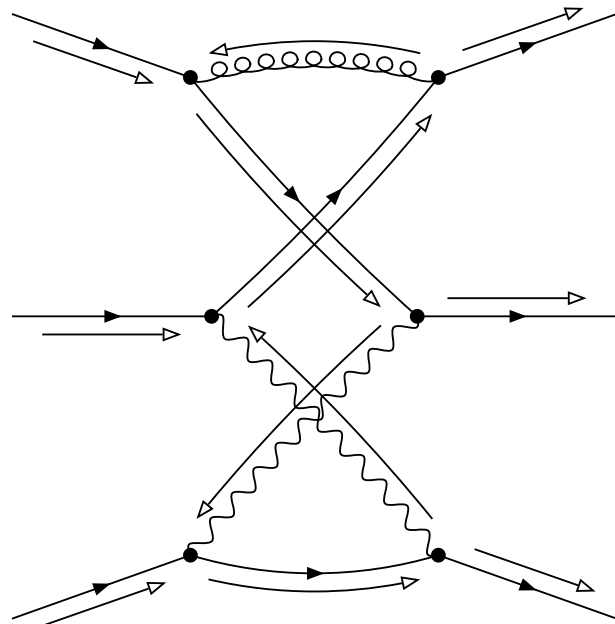
graph 6



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg
{ pdg: 11 }]
```

```
AutG(1)^-1*ExternalFermionOrderingSign(1)*AntiFermionSpinSumSign(1)*NumeratorIndependentSymmetryGrouping(2)
```

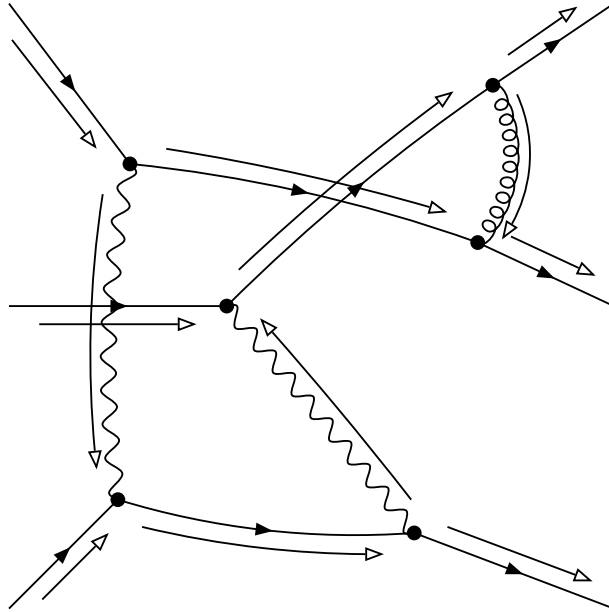
graph 7



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg
{ pdg: 11 }]
```

```
AutG(1)^-1*ExternalFermionOrderingSign(1)*AntiFermionSpinSumSign(1)*NumeratorIndependentSymmetryGrouping(2)
```

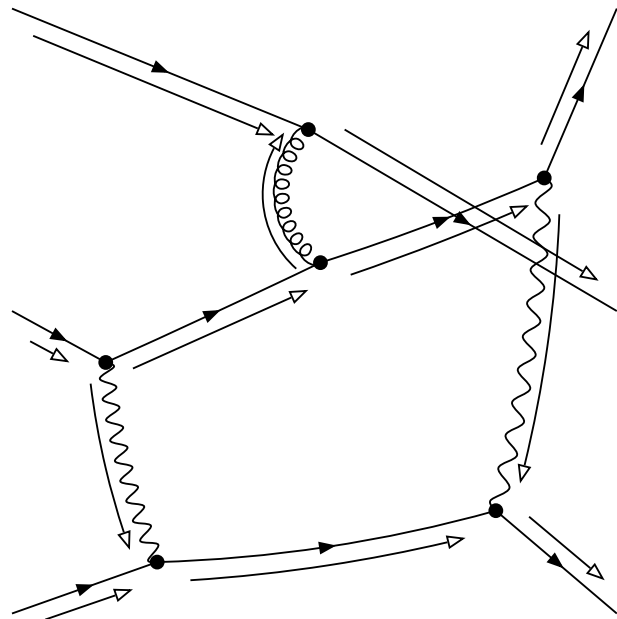
graph 8



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg
{ pdg: 11 }]
```

$$\text{AutG}(1)^{-1} \cdot \text{ExternalFermionOrderingSign}(1) \cdot \text{AntiFermionSpinSumSign}(1) \cdot \text{NumeratorIndependentSymmetryGrouping}(2)$$

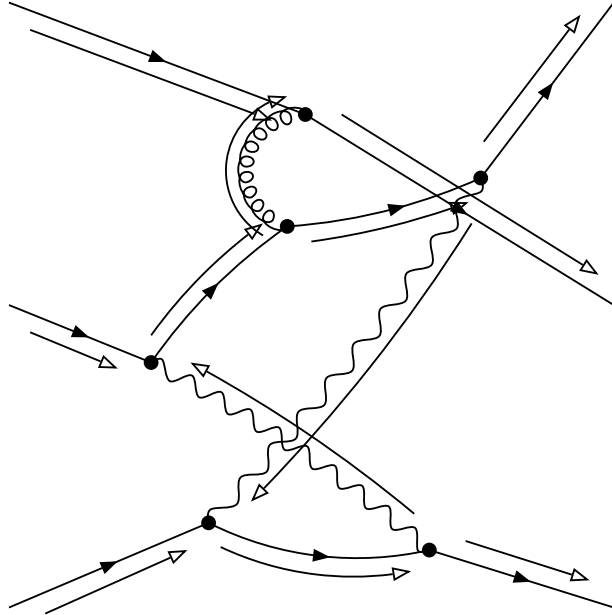
graph 9



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg  
{ pdg: 11 }]
```

```
AutG(1)^-1*ExternalFermionOrderingSign(1)*AntiFermionSpinSumSign(1)*NumeratorIndependentSymmetryGrouping(2)
```

graph 10



```
2 [Pdg { pdg: 1 }, Pdg { pdg: 1 }, Pdg  
{ pdg: 11 }]
```

```
AutG(1)^-1*ExternalFermionOrderingSign(1)*AntiFermionSpinSumSign(1)*NumeratorIndependentSymmetryGrouping(2)
```

