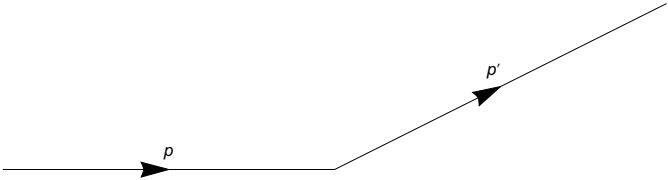


```
In[7]:= Needs["RG`FeynmanDiagrams`"]
```

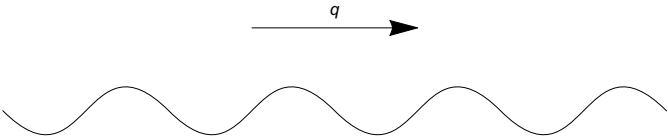
```
In[8]:= electronLine[{{-2, 0}, {0, 0}, {2, 1}}, {p, p'}]
```

Out[8]=



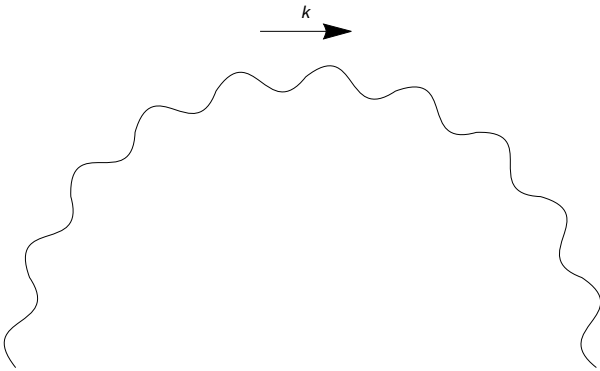
```
In[9]:= photonLine[{{0, 0}, {1, 0}}, q, 4]
```

Out[9]=



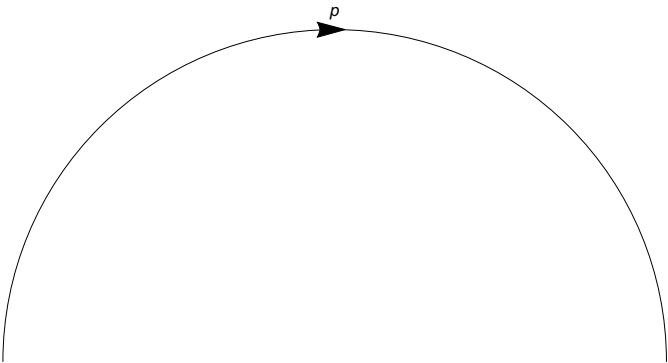
```
In[10]:= photonArc[{{-1, 1}, {1, 1}}, k, 10]
```

Out[10]=



```
In[11]:= electronArc[{{-1, 1}, {1, 1}}, p]
```

Out[11]=

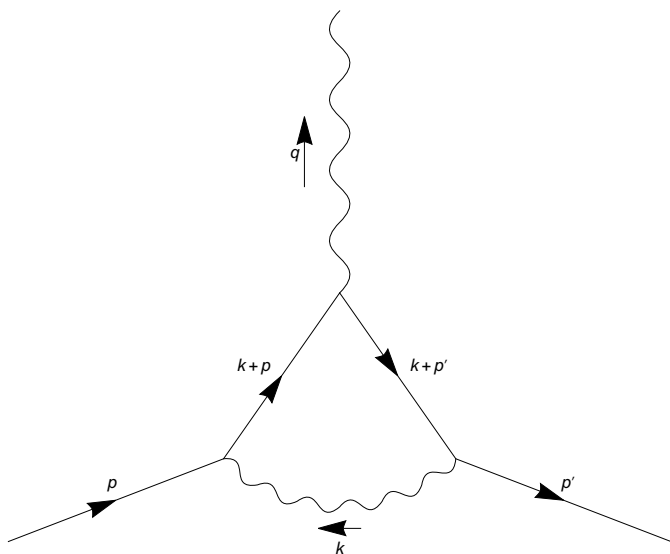


```

In[12]:= fig`electron_vertex = With[{
  pIn = {-2, -1.5}, pOut = {2, -1.5}, qOut = {0, 1.7},
  v1 = {-0.7, -1}, v2 = {0, 0}, v3 = {0.7, -1}
},
Show[{
  electronLine[{pIn, v1, v2, v3, pOut}], {p, p + k, p' + k, p'}],
  photonArc[{v3, v1}, k, 6,  $\pi/2$ ],
  photonLine[{v2, qOut}, q]
}]
]

```

Out[12]=

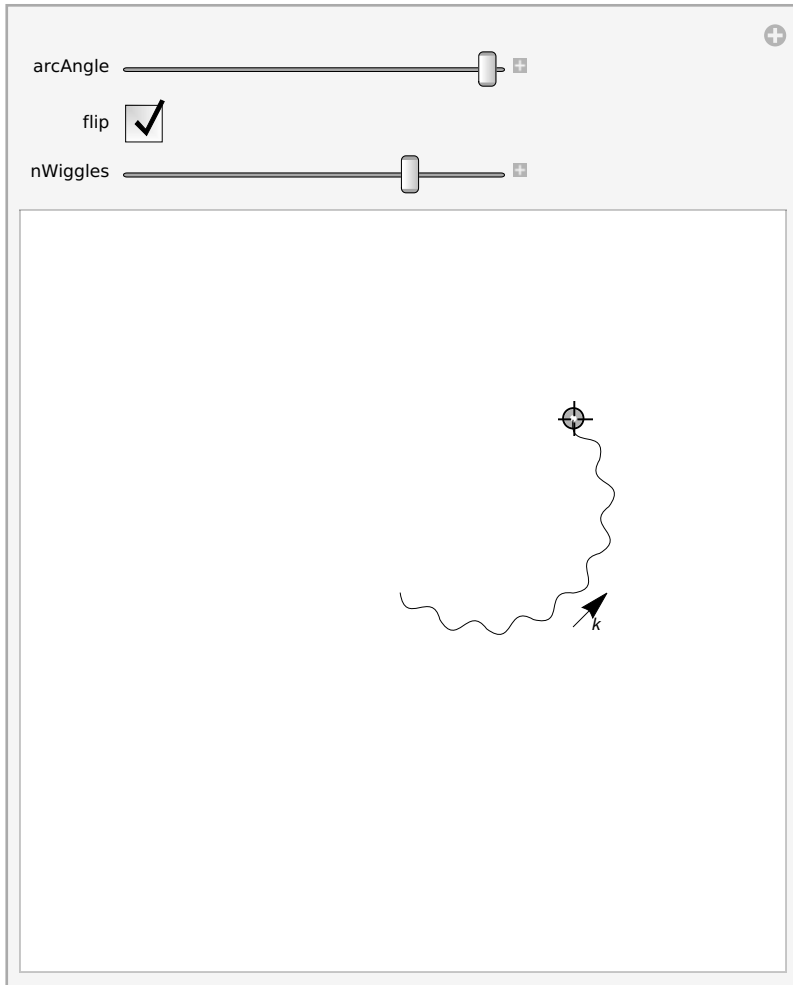


```

In[13]:= Manipulate[Show[{
  photonArc[{{0, 0}, x}, k, nWiggles, arcAngle, flip]],
  PlotRange -> {{-1, 1}, {-1, 1}}
], {{x, {0.5, 0.5}}, Locator}, {{arcAngle,  $\pi$ }, 0.01,  $\pi$ },
{flip, {True, False}}, {{nWiggles, 8}, 1, 10, 1}]

```

Out[13]=



```

In[14]:= Manipulate[Show[{
  electronArc[{0, 0}, x], k, arcAngle, flip, Automatic, 2]],
  PlotRange -> {{-1, 1}, {-1, 1}}
], {{x, {0.5, 0.5}}, Locator}, {{arcAngle,  $\pi$ }, 0.01,  $\pi$ }, {flip, {True, False}}]

```

Out[14]=

