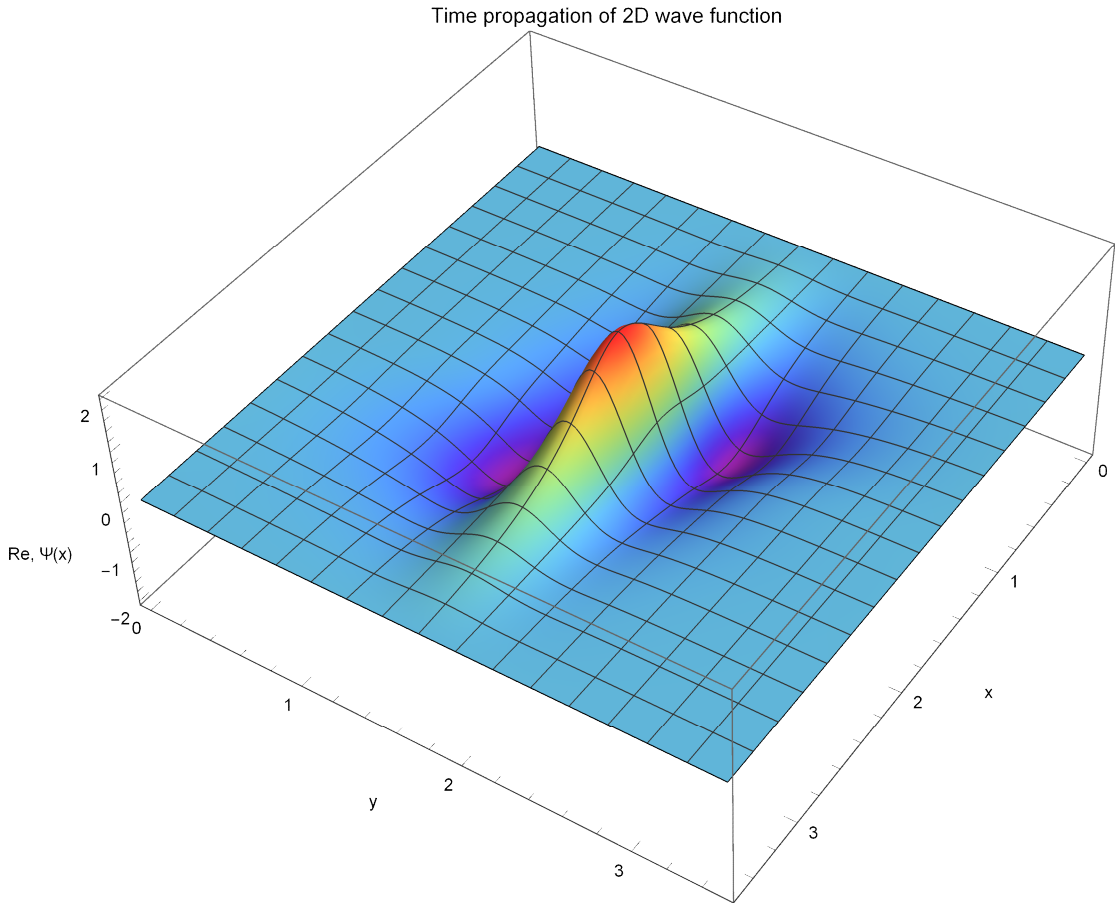
In[489]:=
```
Data5 = Import["C:\\Users\\daniils\\Desktop\\code\\ureca\\SS_1D\\Sinc2D\\plots.txt",
   "Table", "HeaderLines" → 1];
```

In[530]:=
```
ListPlot3D[Data5, PlotRange → {{0, 3.5}, {0, 3.5}, {-2, 2}},
 PlotLabel → "Time propagation of 2D wave function",
 AxesLabel → {"x", "y", "Re, Ψ(x)"}, PlotStyle → {Opacity[1.0]},
 ImageSize → Large, ColorFunction → "Rainbow", ViewPoint → {3.5, 2, 1}]
```

Out[530]=



In[509]:=
```
E1 = 0.63845041096884692;
E2 = 0.76843683058709089;
E3 = 0.76945173062182626;
E4 = 0.78561469494423963;
E5 = 0.82130120706101795;
```

In[514]:=
```
c1 = Sqrt[0.2];
c2 = Sqrt[0.2];
c3 = Sqrt[0.2];
c4 = Sqrt[0.2];
c5 = Sqrt[0.2]
```

Out[514]= 0.447214

In[537]:=
```
Parallelize[
 plot = Table[Piecewise[{{Data1[[i]][[j]], j == 1}, {Data1[[i]][[j]], j == 2},
      {c1 * Data1[[i]][[j]] * Cos[-E1 t] + c2 * Data2[[i]][[j]] * Cos[-E2 t] +
        c3 * Data3[[i]][[j]] * Cos[-E3 t] + c4 * Data4[[i]][[j]] * Cos[-E4 t] +
        c5 * Data5[[i]][[j]] * Cos[-E5 t], j == 3}}], {i, 1, 14641}, {j, 1, 3}];]
```

In[541]:=
```
Parallelize[
 tabular = Table[ListPlot3D[plot, PlotRange → {{0, 3.5}, {0, 3.5}, {-2, 2}}, PlotLabel →
      "Time propagation of 2D wave function", AxesLabel → {"x", "y", "Re, Ψ(x,y)"},
     PlotStyle → {Opacity[1.0]}, ViewPoint → {3.5, 2, 1},
     ImageSize → {1080, 720}, ColorFunction → "Rainbow"], {t, 0, 30, 0.1}];]
```

In[540]:=
```
Parallelize[ListAnimate[tabular]]
```

Parallelize: ListAnimate[tabular] cannot be parallelized; proceeding with sequential evaluation.

In[542]:=
```
Export[
 "C:\\Users\\daniils\\Desktop\\code\\ureca\\SS_1D\\Sinc2D\\harmonic.avi", tabular]
```

Out[542]= C:\Users\daniils\Desktop\code\ureca\SS_1D\Sinc2D\harmonic.avi