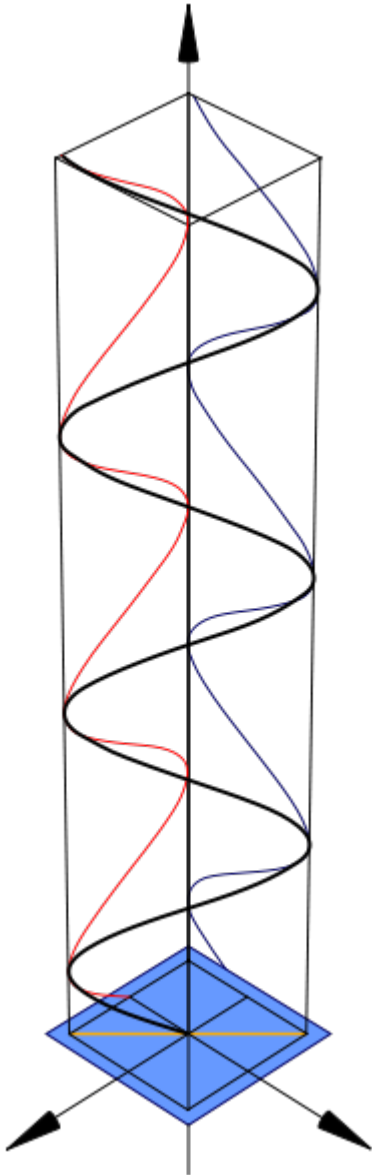


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Datei:Polarisation (Linear).png

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- [Dateiversionen](#)
- [Dateiverwendung](#)



Es ist keine höhere Auflösung vorhanden.

[Polarisation_\(Linear\).png](#) (240 × 600 Pixel, Dateigröße: 30 KB, MIME-Typ: image/png)

Mathematica Code

This figure requires the use of `Arrow3D`, which is not included in the `StandardPackages` (as of Feb 2007). This can be obtained from Wolfram Research at [this location](#). The required packages are:

```
<< Graphics`  
<< Arrow3D`Arrow3D`
```

The code is:

```
wavefunction=ParametricPlot3D[{Sin[4t], -Sin[4t], t}, {t, 0, 5},
  BoxRatios[Rule]{1,
    1, 4}, ImageSize[Rule]400, Boxed[Rule]False, Axes[Rule]False,
    PlotPoints[Rule]60, ViewPoint->{2, 2, 2}, PlotRange[Rule]All]

repsi=ParametricPlot3D[{Sin[4t], -1, t, RGBColor[1, 0, 0]}, {t, 0, 5},
  BoxRatios[Rule]{4, 1, 1}, ImageSize[Rule]500,
  Boxed[Rule]False, Axes[Rule]False,
  PlotPoints[Rule]60, PlotRange[Rule]All]

imps=ParametricPlot3D[{-1, -Sin[4t], t, RGBColor[0, 0, 102/255]}, {
  t, 0, 5}, BoxRatios[Rule]{4, 1, 1}, ImageSize[Rule]500, Boxed[Rule]False,
  Axes[Rule]False, PlotPoints[Rule]60, PlotRange[Rule]All]

end=ParametricPlot3D[{Sin[t], -Sin[t], 0}, {t, 0, 2π}, BoxRatios[Rule]{4, 1, 1},
  ImageSize[Rule]500, Boxed[Rule]False, Axes[Rule]False,
  PlotPoints[Rule]10, PlotRange[Rule]All]

xaxis=Graphics3D[Arrow3D[{0, 0, -1}, {
  0, 0, 6}], HeadSize [Rule] UniformSize[.5], HeadColor[Rule]Black]]

uaxis=Graphics3D[Arrow3D[{0, -1, 0}, {0, 3, 0}], HeadSize [Rule]
  UniformSize[.5], HeadColor[Rule]Black]]

vaxis=Graphics3D[Arrow3D[{-1, 0, 0}, {3, 0, 0}], HeadSize [Rule]
  UniformSize[.5], HeadColor[Rule]Black]]

plane=Graphics3D[Polygon[{{1.2, 1.2, 0}, {1.2, -1.2, 0}, {-1.2, -1.2, 0}, {-1.2, 1.2, 0}}
\
]]

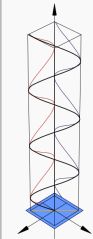
crate=WireFrame[Graphics3D[Cuboid[{1, 1, 0}, {-1, -1, 5}]]]

Show[wavefunction, xaxis, uaxis, vaxis, plane, repsi, imps, end, crate]
```

Quelle: de.wikipedia.org

Dateiversionen

Klicken Sie auf einen Zeitpunkt, um diese Version zu laden.

	Version vom	Vorschaubild	Maße	Benutzer	Kommentar
aktuell	20:12, 12. Dez. 2009		240 × 600 (30 KB)	Oe1mcu (Diskussion Beiträge)	==Mathematica Code== This figure requires the use of Arrow3D, which is not included in the StandardPackages (as of Feb 2007). This can be obtained from Wolfram Research at [http://library.wolfram.com/infocenter/TechNotes/4117/this location]. The require

Sie können diese Datei nicht überschreiben.

Dateiverwendung

Die folgende Seite verwendet diese Datei:

- [Antennenkompendium](#)

Datei:Polarisation (Linear).png

Mathematica Code

This figure requires the use of Arrow3D, which is not included in the StandardPackages (as of Feb 2007). This can be obtained from Wolfram Research at [this location](#). The required packages are:

```
<< Graphics`  
<< Arrow3D`Arrow3D`
```

The code is:

```
wavefunction=ParametricPlot3D[{Sin[4t],-Sin[4t],t},{t,0,5},  
  BoxRatios[Rule]{1,  
    1,4},ImageSize[Rule]400,Boxed[Rule]False,Axes[Rule]False,  
    PlotPoints[Rule]60,ViewPoint->{2,2,2},PlotRange[Rule]All]  
  
repsi=ParametricPlot3D[{Sin[4t],-1,t,RGBColor[1,0,0]},{t,0,5},  
  BoxRatios[Rule]{4,1,1},ImageSize[Rule]500,  
  Boxed[Rule]False,Axes[Rule]False,  
  PlotPoints[Rule]60,PlotRange[Rule]All]  
  
impsi=ParametricPlot3D[{-1,-Sin[4t],t,RGBColor[0,0,102/255]},{  
  t,0,5},BoxRatios[Rule]{4,1,1},ImageSize[Rule]500,Boxed[Rule]False,  
  Axes[Rule]False,PlotPoints[Rule]60,PlotRange[Rule]All]  
  
end=ParametricPlot3D[{Sin[t],-Sin[t],0},{t,0,2π},BoxRatios[Rule]{4,1,1},  
  ImageSize[Rule]500,Boxed[Rule]False,Axes[Rule]False,  
  PlotPoints[Rule]10,PlotRange[Rule]All]  
  
xaxis=Graphics3D[Arrow3D[{0,0,-1},{  
  0,0,6},HeadSize[Rule]UniformSize[.5],HeadColor[Rule]Black]]  
  
uaxis=Graphics3D[Arrow3D[{0,-1,0},{0,3,0},HeadSize[Rule]  
  UniformSize[.5],HeadColor[Rule]Black]]  
  
vaxis=Graphics3D[Arrow3D[{-1,0,0},{3,0,0},HeadSize[Rule]  
  UniformSize[.5],HeadColor[Rule]Black]]  
  
plane=Graphics3D[Polygon[{{1.2,1.2,0},{1.2,-1.2,0},{-1.2,-1.2,0},{-1.2,1.2,0}}  
  ]]  
  
crate=WireFrame[Graphics3D[Cuboid[{1,1,0},{-1,-1,5}]]]  
  
Show[wavefunction,xaxis,uaxis,vaxis,plane,repsi,impsi,end,crate]
```

Quelle: de.wikipedia.org

Datei:Polarisation (Linear).png

Mathematica Code

This figure requires the use of Arrow3D, which is not included in the StandardPackages (as of Feb 2007). This can be obtained from Wolfram Research at [this location](#). The required packages are:

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<< Graphics`
<< Arrow3D`Arrow3D`
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The code is:

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wavefunction=ParametricPlot3D[{Sin[4t],-Sin[4t],t},{t,0,5},
  BoxRatios\[Rule]{1,
  1,4},ImageSize\[Rule]400,Boxed\[Rule]False,Axes\[Rule]False,
  PlotPoints\[Rule]60,ViewPoint->{2,2, 2},PlotRange\[Rule]All]

repsi=ParametricPlot3D[{Sin[4t],-1,t,RGBColor[1,0,0]},{t,0,5},
  BoxRatios\[Rule]{4,1,1},ImageSize\[Rule]500,
  Boxed\[Rule]False,Axes\[Rule]False,
  PlotPoints\[Rule]60,PlotRange\[Rule]All]

imps=ParametricPlot3D[{-1,-Sin[4t],t,RGBColor[0,0,102/255]},{
  t,0,5},BoxRatios\[Rule]{4,1,1},ImageSize\[Rule]500,Boxed\[Rule]False,
  Axes\[Rule]False,PlotPoints\[Rule]60,PlotRange\[Rule]All]

end=ParametricPlot3D[{Sin[t],-Sin[t],0},{t,0,2π},BoxRatios\[Rule]{4,1,1},
  ImageSize\[Rule]500,Boxed\[Rule]False,Axes\[Rule]False,
  PlotPoints\[Rule]10,PlotRange\[Rule]All]

xaxis=Graphics3D[Arrow3D[{0,0,-1},{
  0,0,6},HeadSize \[Rule] UniformSize[.5],HeadColor\[Rule]Black]]

uaxis=Graphics3D[Arrow3D[{0,-1,0},{0,3,0},HeadSize \[Rule]
  UniformSize[.5],HeadColor\[Rule]Black]]

vaxis=Graphics3D[Arrow3D[{-1,0,0},{3,0,0},HeadSize \[Rule]
  UniformSize[.5],HeadColor\[Rule]Black]]

plane=Graphics3D[Polygon[{{1.2,1.2,0},{1.2,-1.2,0},{-1.2,-1.2,0},{-1.2,1.2,0}}
\
]]

crate=WireFrame[Graphics3D[Cuboid[{1,1,0},{-1,-1,5}]]]

Show[wavefunction,xaxis,uaxis,vaxis,plane,repsi,imps,end,crate]
```

Quelle: de.wikipedia.org