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Datei:Polarisation (Linear).png

Aktuelle Version vom 12. Dezember 2009, 20:12 Uhr (Quelltext anzeigen)

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)

(kein Unterschied)

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```
<< 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]]

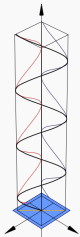
plane=Graphics3D[Polygon[{{1.2, 1.2, 0}, {1.2, -1.2, 0}, {-1.2, -1.2, 0}, {-1.2, 1.2, 0}}]
```

```
\n]]\n\ncrate=WireFrame[Graphics3D[Cuboid[{1,1,0},{-1,-1,5}]]]\n\nShow[wavefunction,xaxis,uaxis,vaxis,plane,repai,impsi,end,crate]
```

Quelle: de.wikipedia.org

Dateiversionen

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	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

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Dateiverwendung

Die folgende Seite verwendet diese Datei:

- Antennenkompendium

Datei:Polarisation (Linear).png: Unterschied zwischen den Versionen

Aktuelle Version vom 12. Dezember 2009, 20:12 Uhr (Quelltext anzeigen)

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wavefunction=ParametricPlot3D[{Sin[4t],-Sin[4t],t},{t,0,5},
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repsi=ParametricPlot3D[{Sin[4t],-1,t,RGBColor[1,0,0]},{t,0,5},
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  ImageSize[Rule]500,Boxed[Rule]False,Axes[Rule]False,
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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}}]
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\n]]\ncrate=WireFrame[Graphics3D[Cuboid[{1,1,0},{-1,-1,5}]]]\nShow[wavefunction,xaxis,uaxis,vaxis,plane,reppsi,imppsi,end,crate]
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repsi=ParametricPlot3D[{Sin[4t],-1,t,RGBColor[1,0,0]},{t,0,5},
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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},
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vaxis=Graphics3D[Arrow3D[{-1,0,0},{3,0,0},HeadSize \[Rule]
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plane=Graphics3D[Polygon[{{1.2,1.2,0},{1.2,-1.2,0},{-1.2,-1.2,0},{-1.2,1.2,0}}]
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```
\n]]\n\ncrate=WireFrame[Graphics3D[Cuboid[{1,1,0},{-1,-1,5}]]]\n\nShow[wavefunction,xaxis,uaxis,vaxis,plane,rep $\psi$ ,im $\psi$ ,end,crate]
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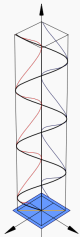


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