

# Hilbert's 13th Problem

Pensieve Header: Hilbert's 13th problem - Step 1 (2014 Branch).

```

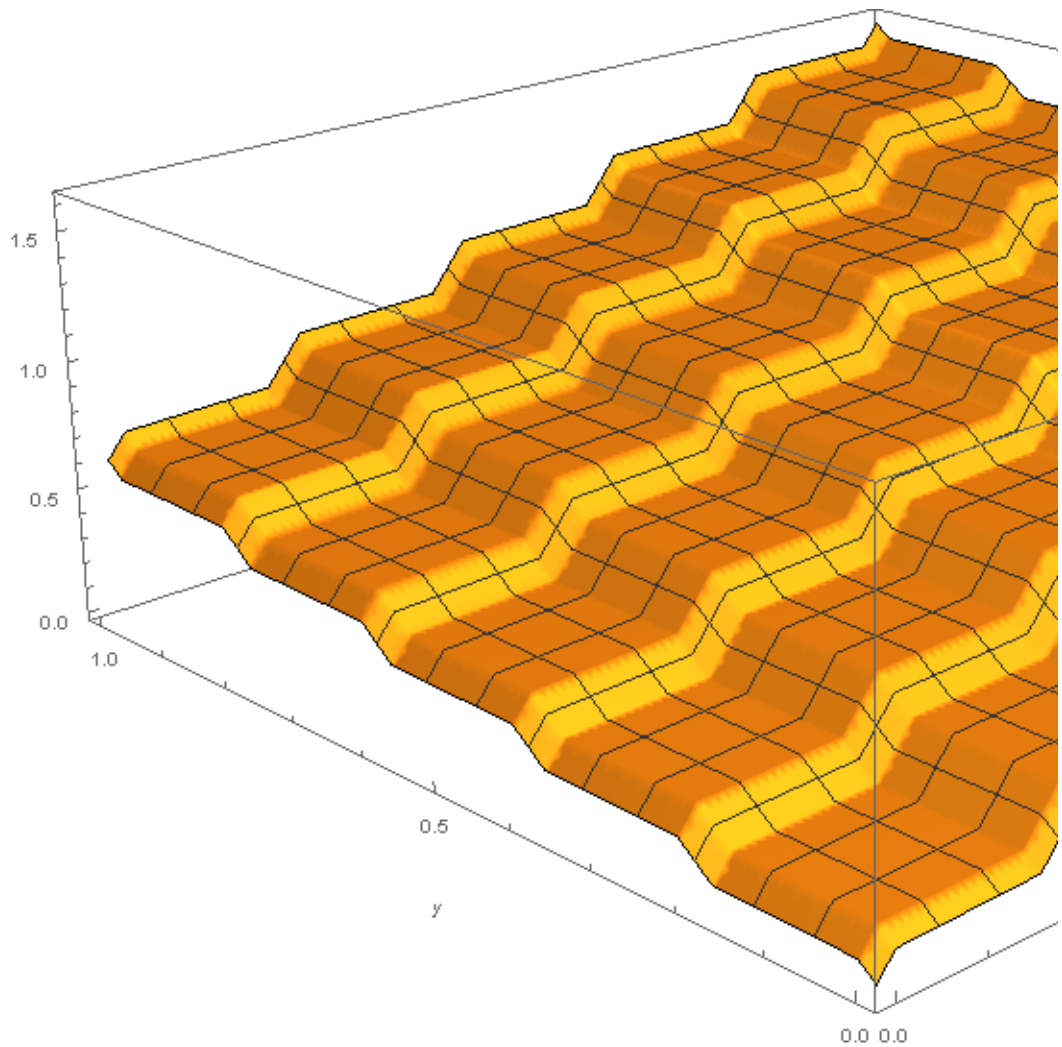
SetDirectory["C:/drorbn/AcademicPensieve/2014-11/H13/"];
<< "../2009-11/Hilbert13th-Program.m"

phi5 := Phi[phi0, 5, 0.1, 0.8];
g = G[f, phi5];

Timing[
  Step1Cascade = Rasterize[
    Plot3D[phi5[x] + λ*phi5[y], {x, 0, 1}, {y, 0, 1},
      PlotPoints → 51, Mesh → 14, Exclusions → None, ViewPoint → {-2, -2, 1},
      AxesLabel → Automatic, ColorFunction → Automatic, ColorFunctionScaling → True
    ]
  ]
]

```

{6.240040,



```
Export[  
  "Step1Cascade.png",  
  ImageCrop[Step1Cascade]  
]  
Step1Cascade.png
```