



h i d r o m e s h

GRUPO 1 |

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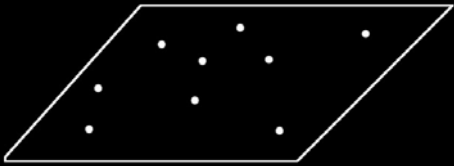


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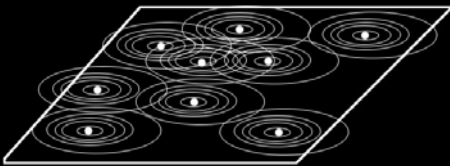
pseudocodigo_inicial



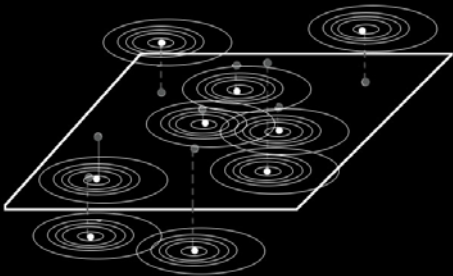
crear un plano



puntos arbitrarios en el plano

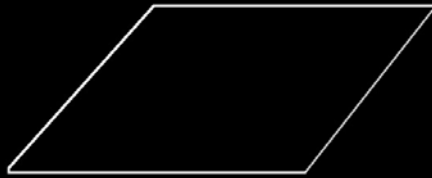


puntos crean reaccion en el plano
(ondas plano horizontales)



puntos jalados con una direccion "z"

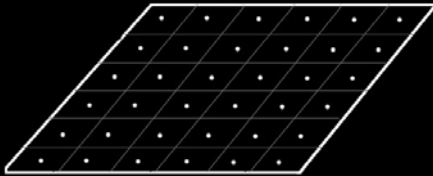
1



```
function dynamicSurface()
dim surface
dim points
dim startTime, endTime
dim segDivision
segDivision = 10
Redim numberOfPoints(1)
numberOfPoints(0) = segDivision + 1 'U
numberOfPoints(1) = segDivision + 1 'V
surface = Rhino.GetObject("Dame un superficie",8)
```

```
ReDim ptsarray(divisions,divisions)
For i = 0 To divisions
For j = 0 To divisions
uubi = i * ((Umax - Umin)/divisions) + Umin
vubi = j * ((Vmax - Vmin)/divisions) + Vmin
punto = Rhino.EvaluateSurface ( superficie, Array(uubi, vubi))
```

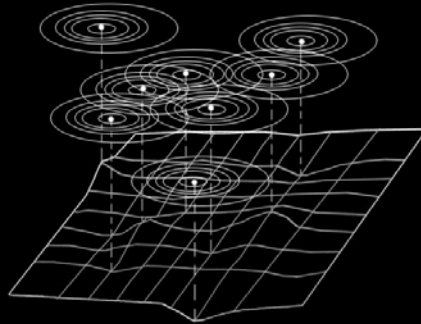
2



```
Function drawRings(pt)
Dim radiolnicial : radiolnicial = 2
Dim variacion : variacion = 5
Dim cantidadDeAnillos : cantidadDeAnillos = 10
For e = 0 To cantidadDeAnillos
'Rhino.Print radiolnicial^2
Rhino.AddCircle pt, (radiolnicial * (e^2)/3)
Next
End Function
```

```
dim numPoints
numPoints = ((segDivision+1) * (segDivision+1))-1
redim pts(numPoints)
dim counter
dim flag
counter = 0
for i = 0 to segDivision
for j = 0 to segDivision
if j = int(rnd()*segDivision) then
points(i,j)(2) = points(i,j)(2) + rnd()*12
end if
```

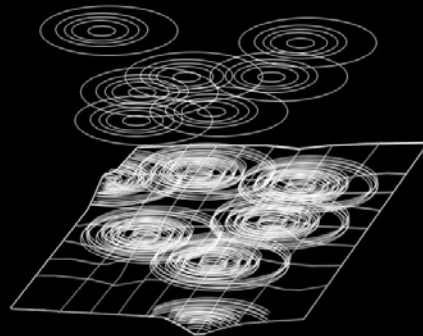
3



```
Function Proyectar (ASur)
Dim curveAll
curveAll= Rhino.ObjectsByType(4)
For i=0 To UBound(curveAll)
Rhino.SelectObject ASur
Rhino.SelectObject curveAll(i)
Rhino.Command "_Project " & "_enter"
```

```
Function Thick
Dim arraylines
Dim thickness: thickness = 0.08
arraylines=Rhino.ObjectsByType (4, vbFalse)
For i=0 To UBound(arraylines)
Rhino.SelectObject (arraylines(i))
Rhino.Command "_pipe _thick=no _cap=round "
& thickness & " _enter" & " _enter" & " _enter"
```

4

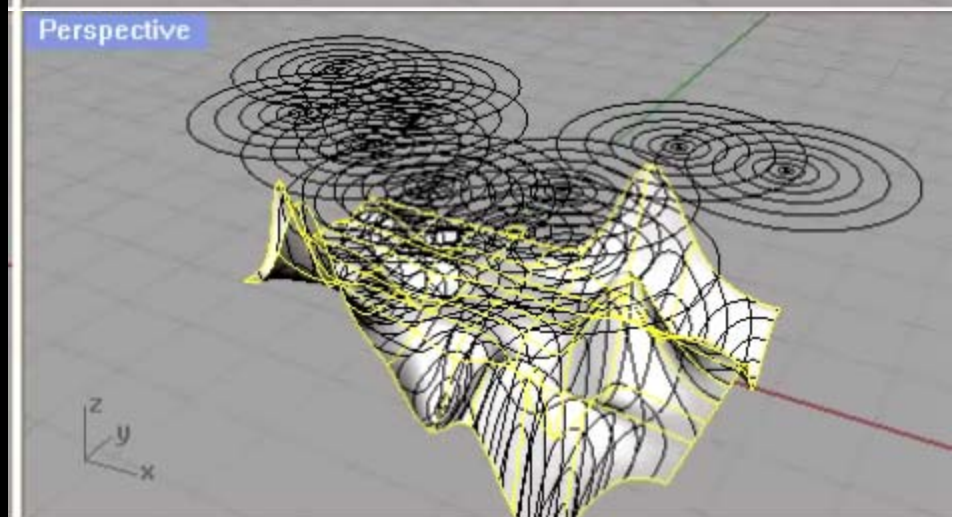
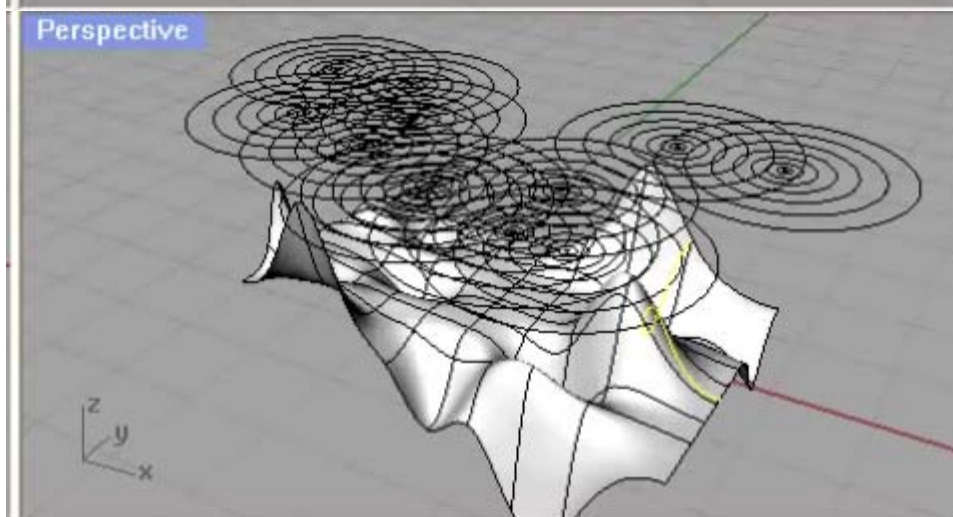
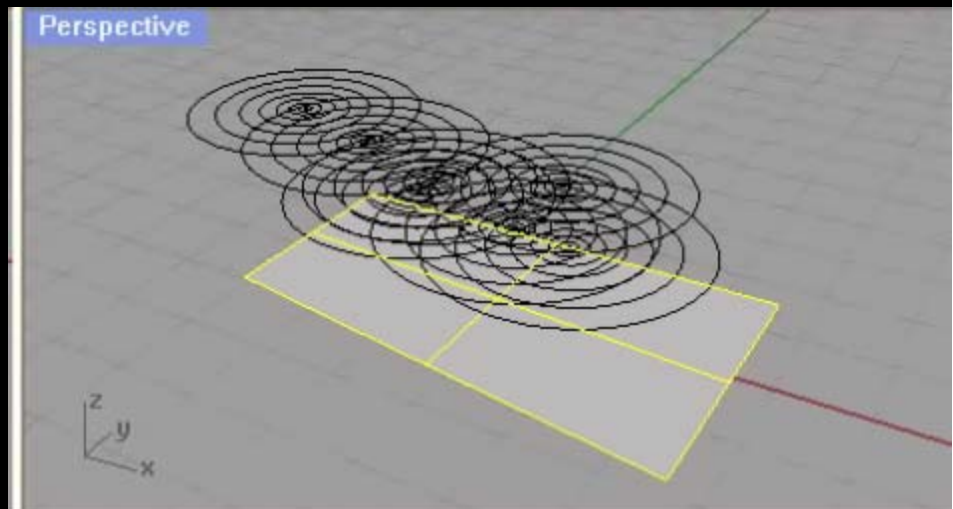
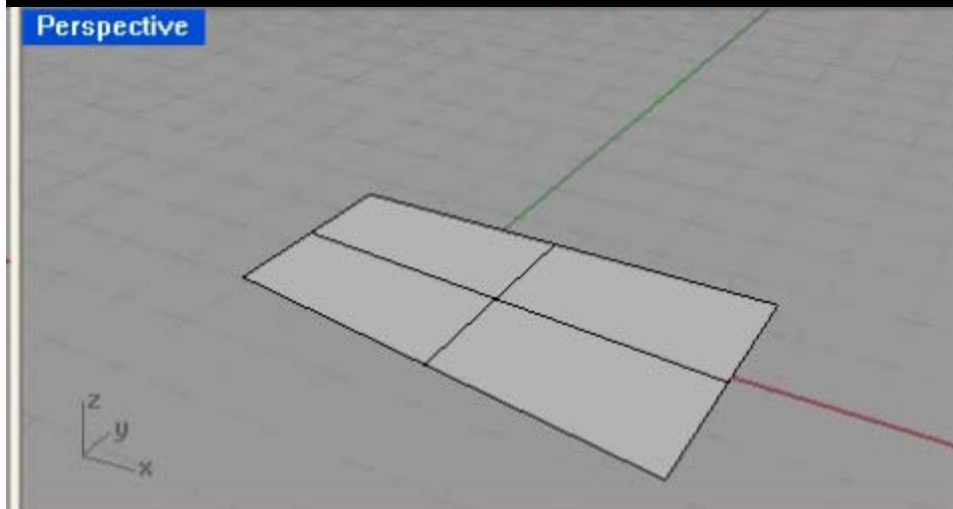


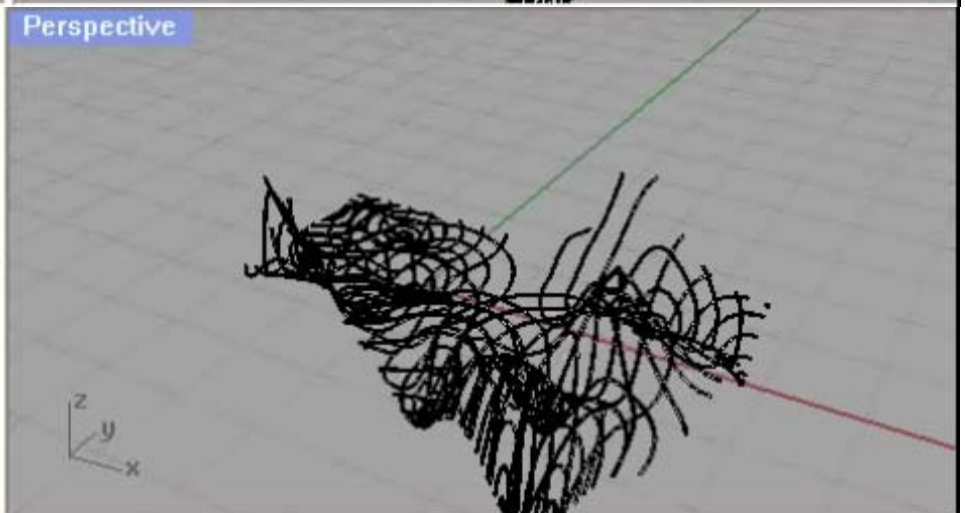
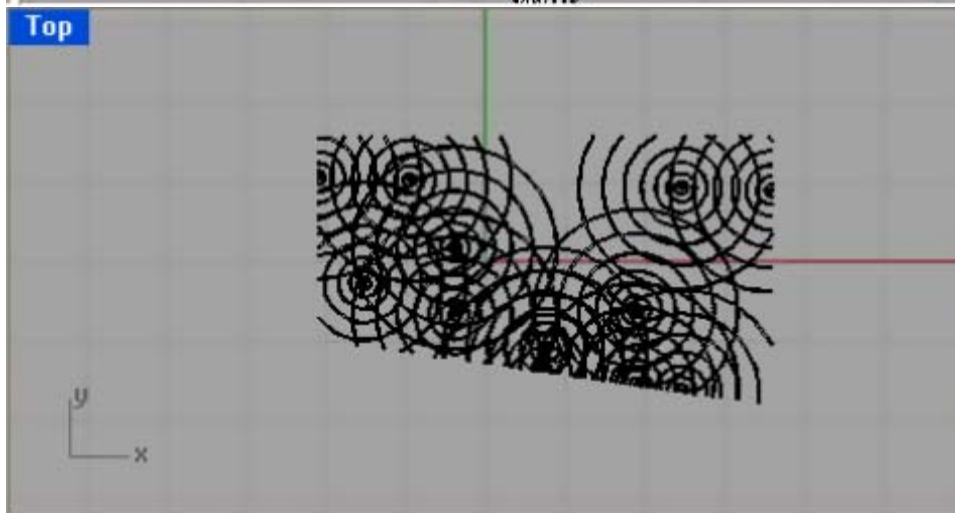
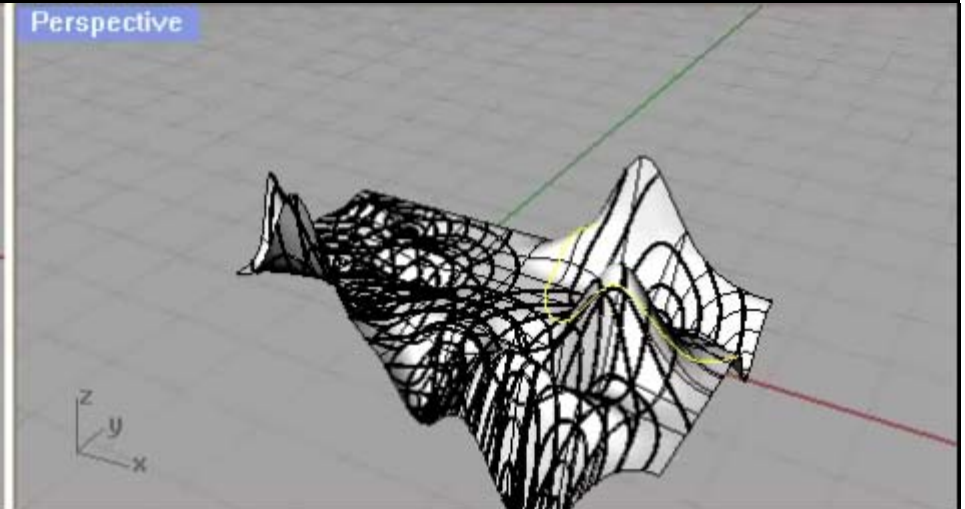
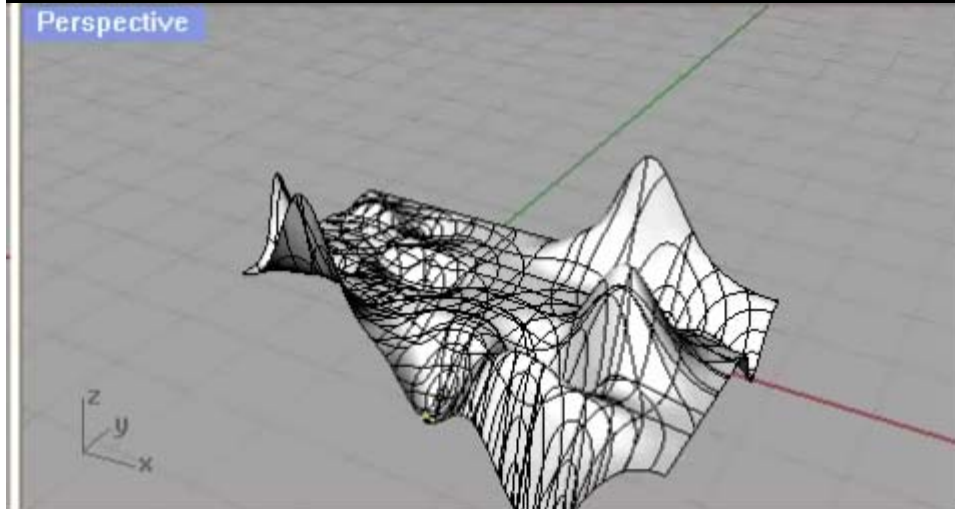
5

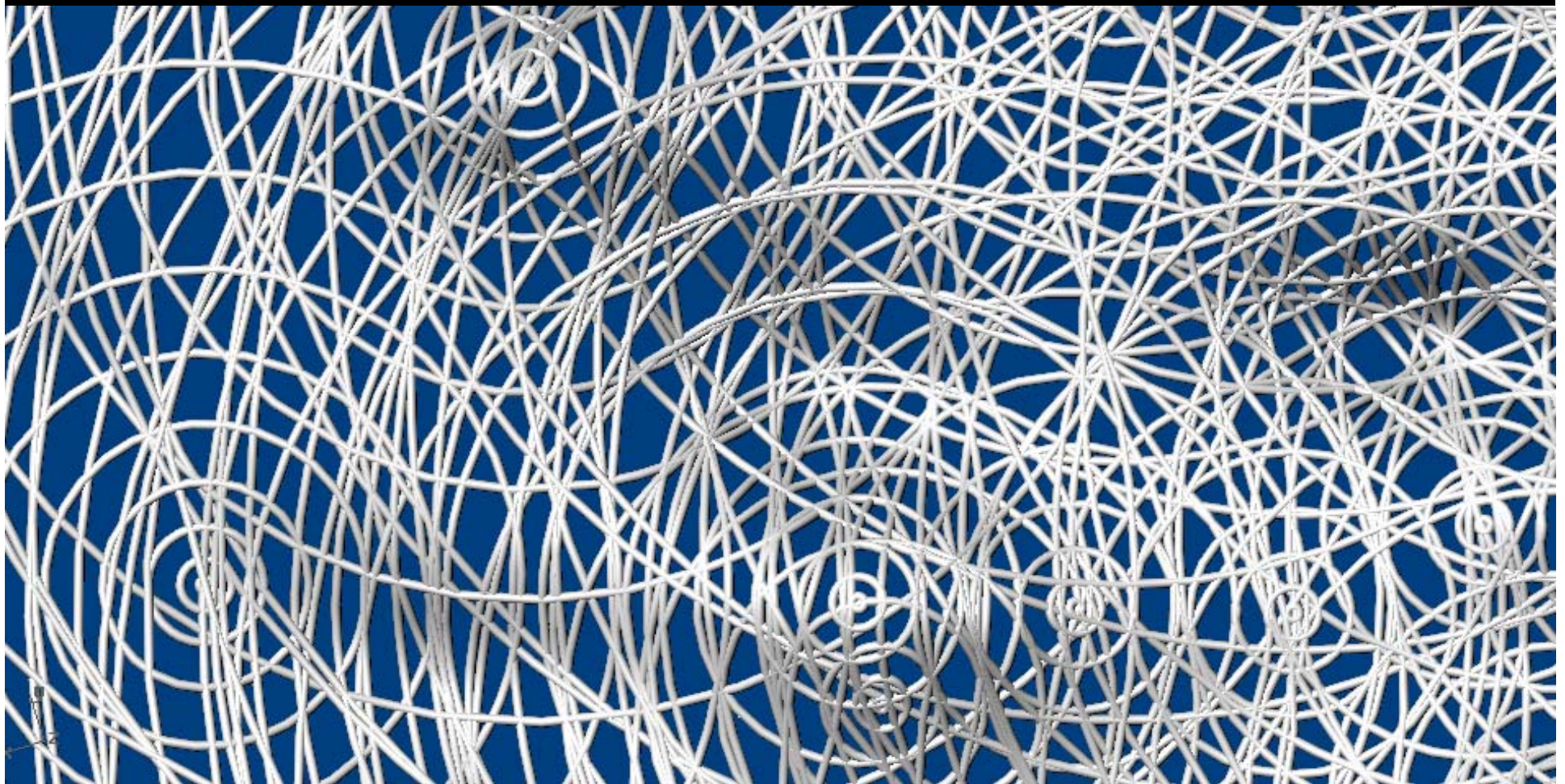


```
Rhino.DeleteObjects(arraylines)
Rhino.DeleteObjects(curveAll)
End Function
```

pseudocodigo_final

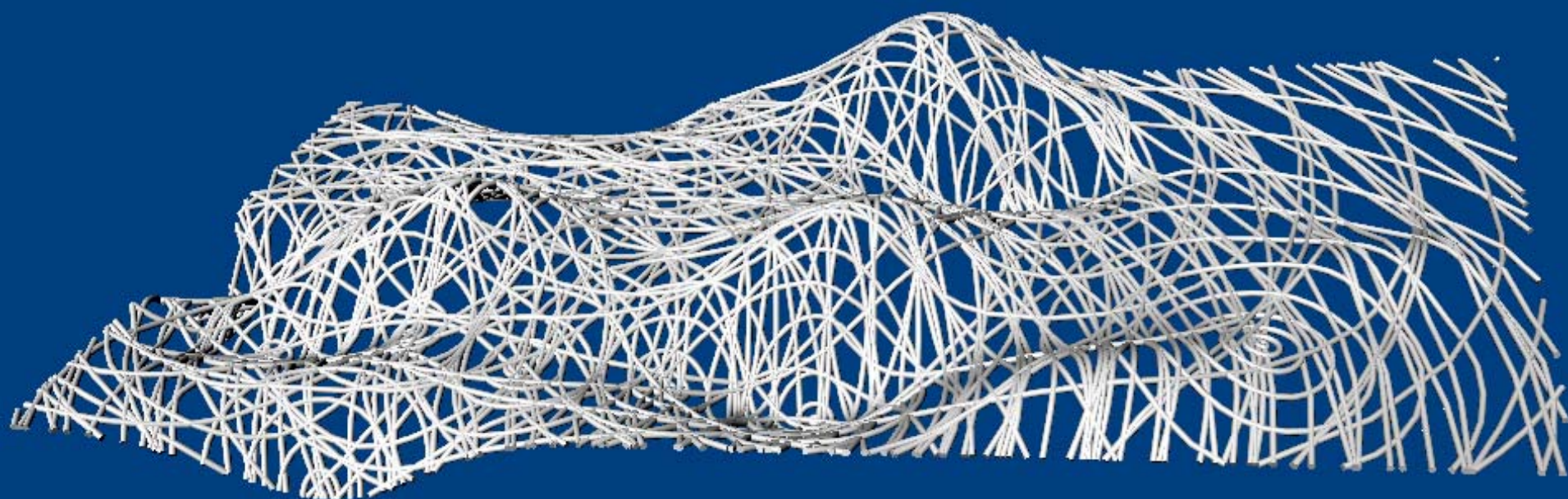






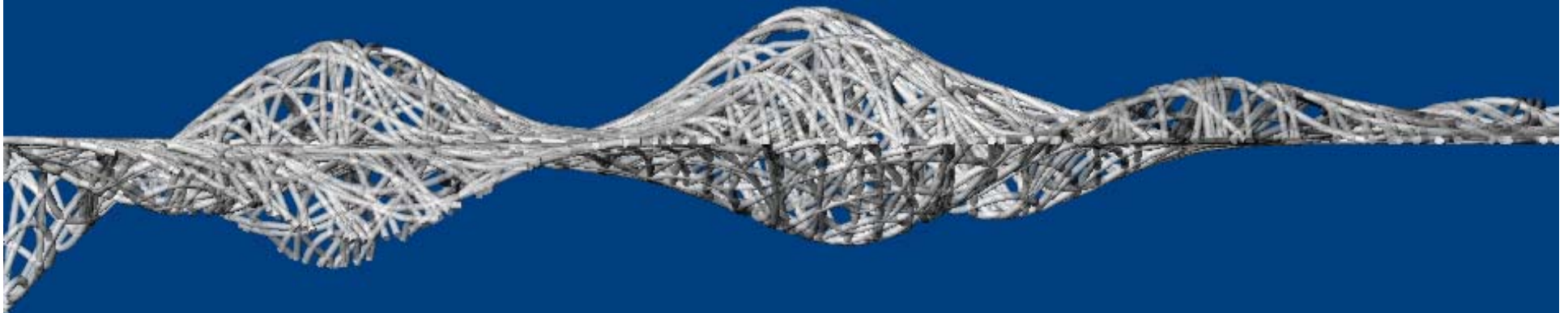
Resultado

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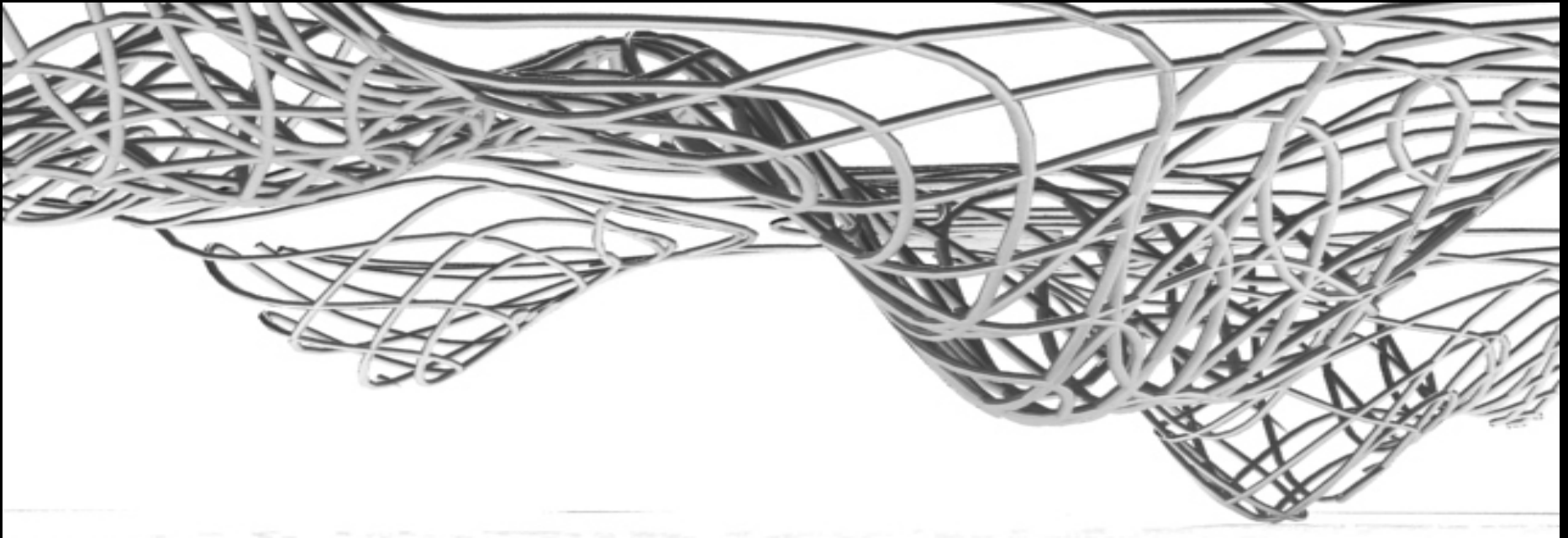
Resultado

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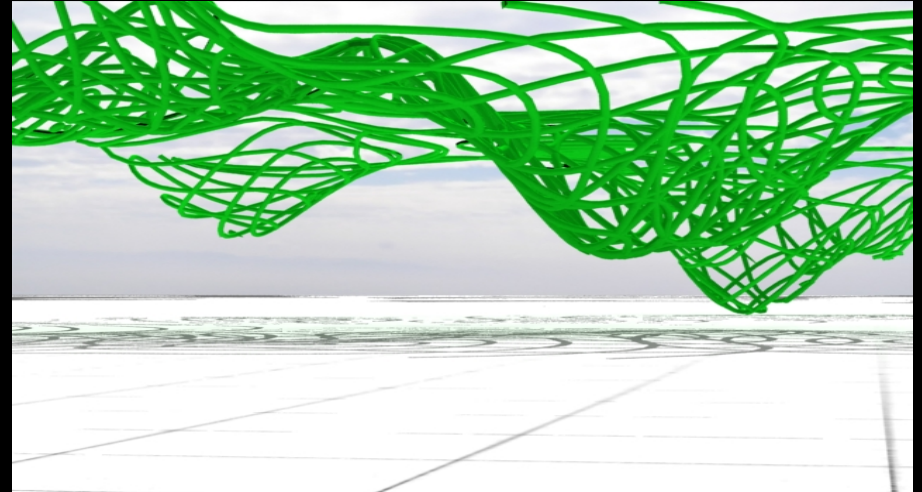
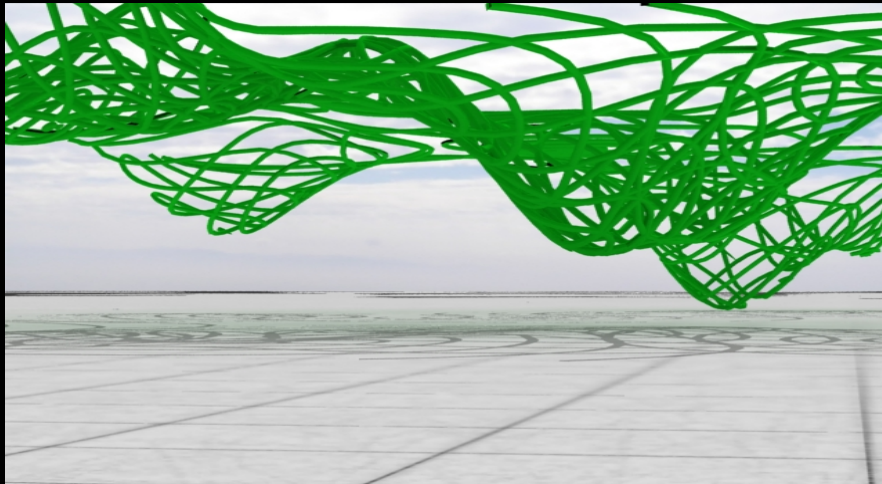


Resultado

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Aplicacion 1



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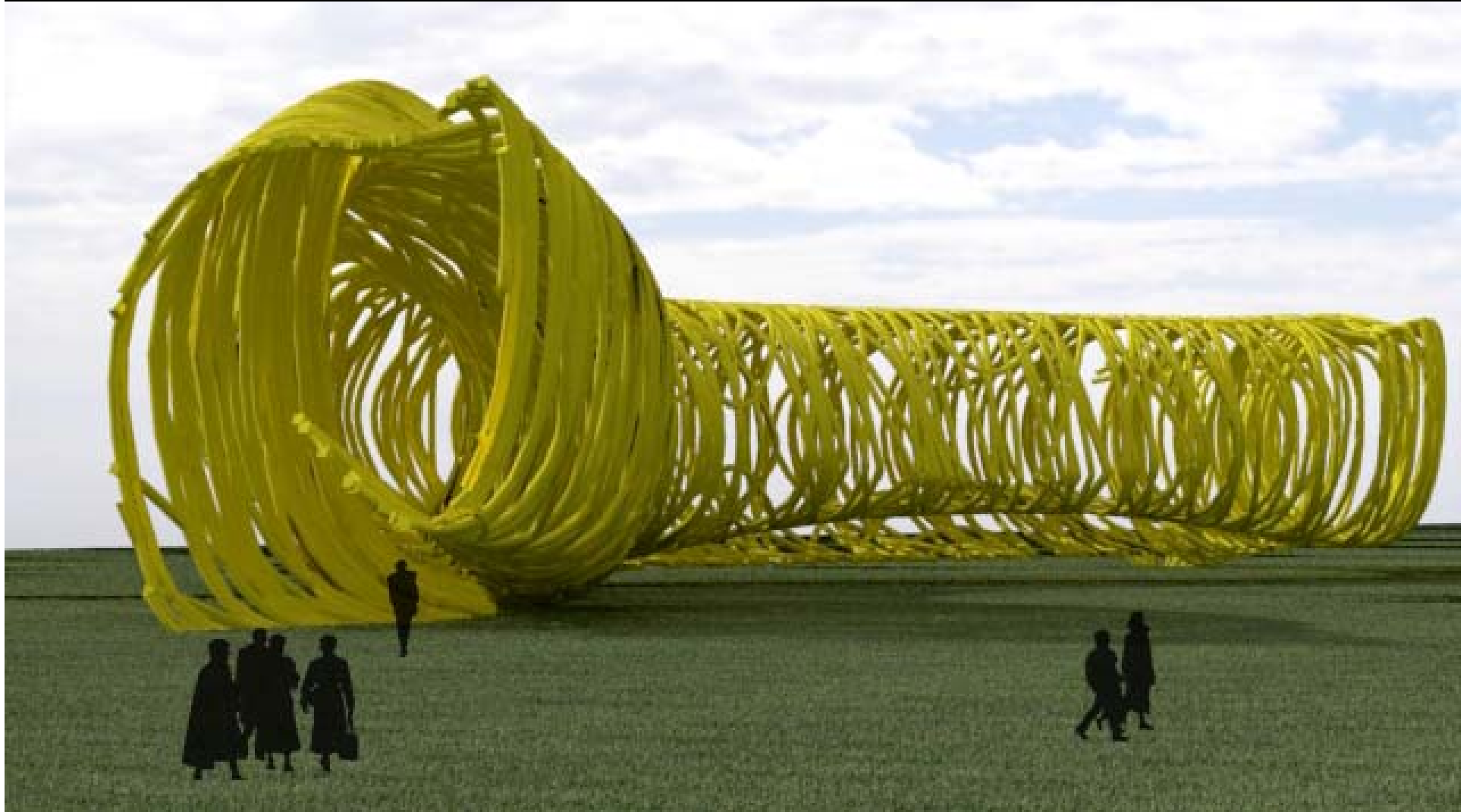


Aplicacion 2

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Aplicacion 3

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