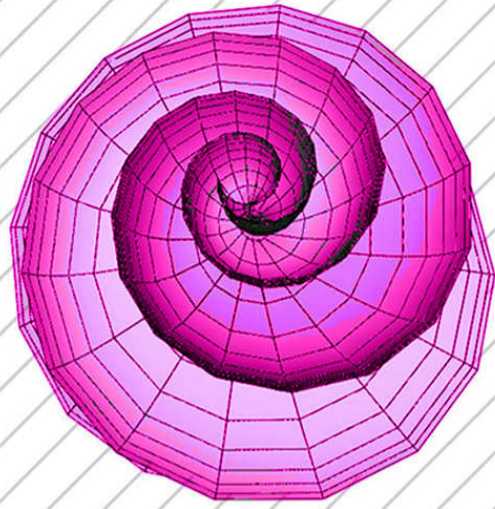
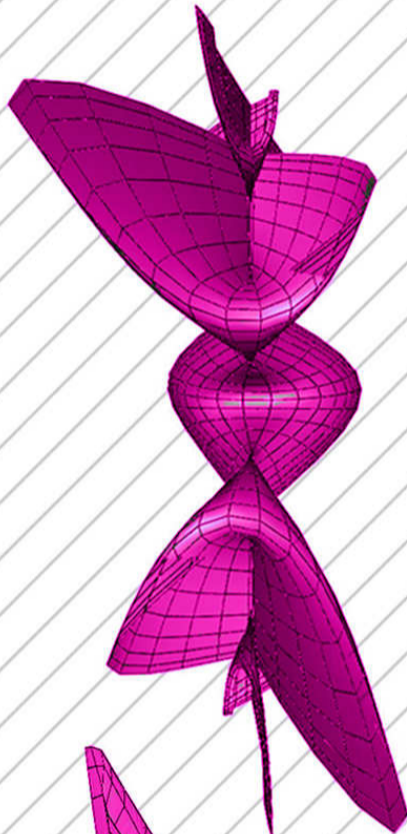


MATEMATIKA U ARHITEKTURI 2

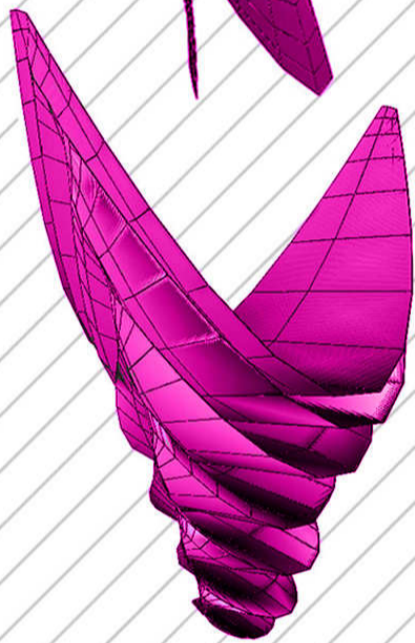
Arhitektonski fakultet Univerziteta u Beogradu; Prof. dr Ljiljana Petruševski; Student Jovana Radujko 2011/129



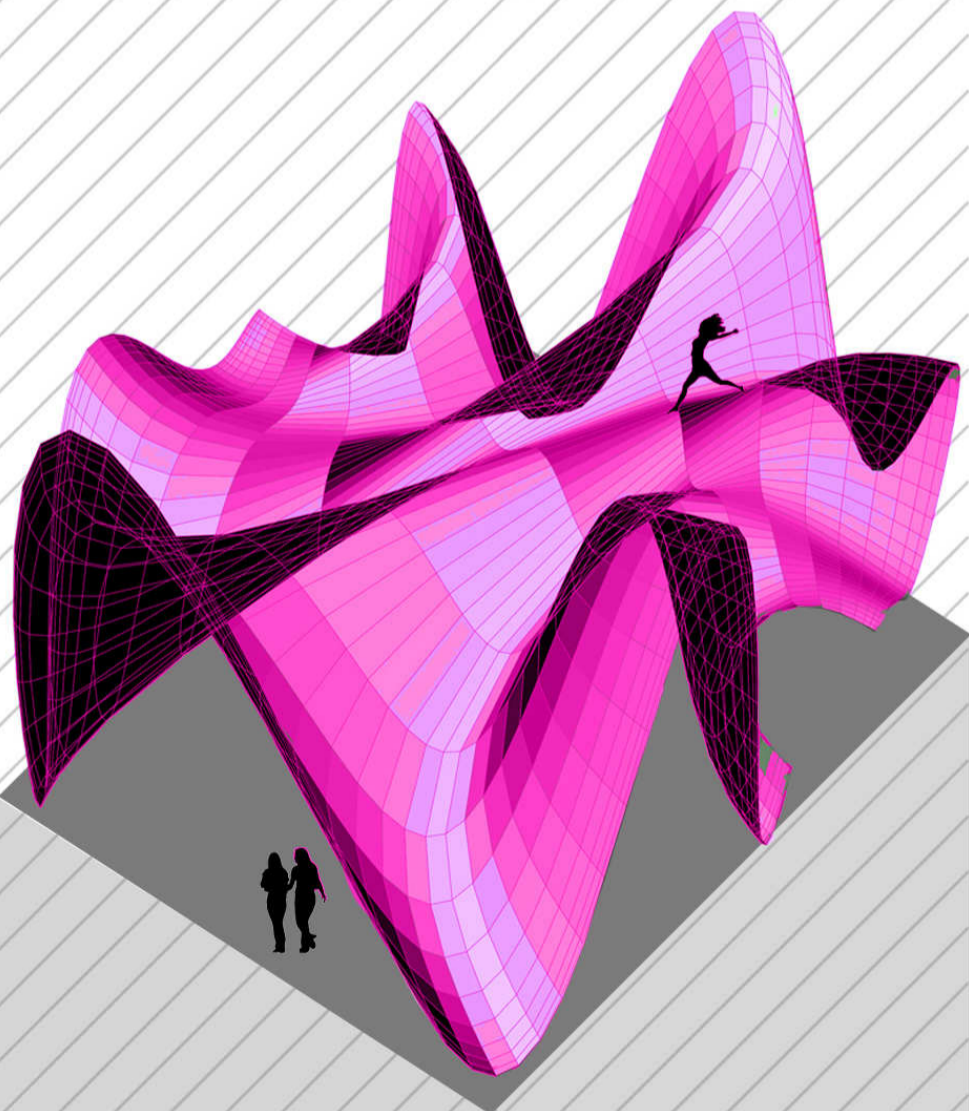
```
X(u,v) cos(param(0)*u*4)/(1+dparam(0))
Y(u,v) sinh(v)/(1+dparam(0))
Z(u,v) cosh(v)/(1+dparam(0))
xRotation 0
yRotation 0
zRotation 0
scaleX 15
scaleY 10
scaleZ 27
Umax 2.5
Umin -2.5
Udens 60
Vmax 4
Vmin -4
Vdens 17
```



```
X(u,v) cosh(v+u/2)*cos(param(0)*u)/(2+dparam(0))*3
Y(u,v) sinh(v)*cos(param(0)*u)/(1+dparam(0))
Z(u,v) cosh(v)*sinh(u)/(1.8+dparam(0))
xRotation 0
yRotation 0
zRotation 0
scaleX 10
scaleY 10
scaleZ 20
Umax 2.5
Umin -2.5
Udens 60
Vmax 4
Vmin -4
Vdens 17
```



```
X(u,v) sinh(v)*cos(param(0)*u)/(1+dparam(0))
Y(u,v) sinh(v)*sin(param(0)*u)/(1+dparam(0))
Z(u,v) cosh(v)/2*sinh(u)/(6+dparam(0))
xRotation 0
yRotation 0
zRotation 0
scaleX 10
scaleY 10
scaleZ 14
Umax 3
Umin -3
Udens 60
Vmax 4
Vmin -4
Vdens 17
```



```
X(u,v) sinh(v)/(dparam(0))
Y(u,v) sinh(v+u/2)*sin(param(0)*u)/(2+dparam(0))
Z(u,v) cosh(v)*sinh(u)/(3+dparam(0))
xRotation 90
yRotation 0
zRotation 0
scaleX 40
scaleY 17
scaleZ 30
Umax 3
Umin -2.5
Udens 80
Vmax 5
Vmin -4
Vdens 20
```

Za temu površi u prostoru napravljeno je matematičko istraživanje klase parametarski deifnisanih geometrijskih elemenata. Na slici levo je prikazan potencijal elementa izražen kroz formu značajne arhitektonike (nadogradnja na postojećem objektu; krov novog objekta sa koristi)

POVRŠI U PROSTORU_Fun3D

Faculty of Architecture, University of Belgrade; Prof. Ljiljana Petruševski, PhD; Student Jovana Radujko 2011/129

e-Learning support Mirjana Devetaković, MSc; Virtual learning environment for the course <http://www.arh.bg.ac.yu/code/navigate.asp?Id=2420>

MATHEMATICS IN ARCHITECTURE 2