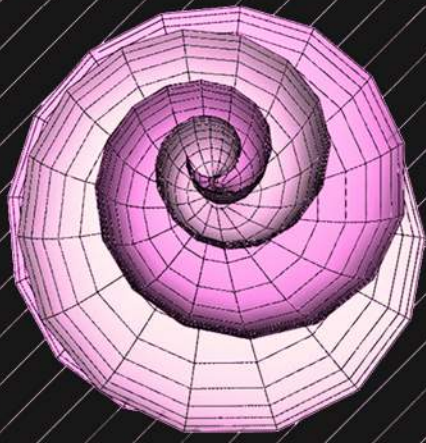
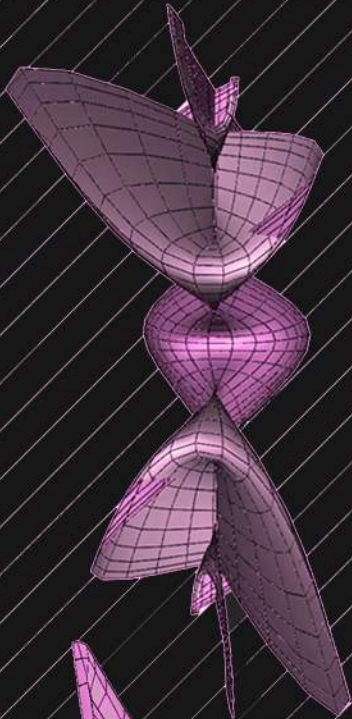


MATEMATIKA U ARHITEKTURI 2

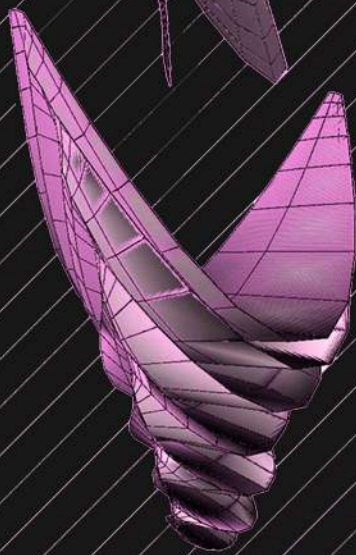
Arhitektonski fakultet Univerziteta u Beogradu; Prof dr Ljiljana Petrusovski; Student Katarina Despotovic 184/2013



```
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 10
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 definisanih geometrijskih elemenata. Na slici levo je prikazan potencijal elemenata izražen kroz formu značajne arhitektonik (nadogradnja na postojećem objektu; krov novog objekta se koristi)

POVRŠI U PROSTORU

Faculty of Architecture, University of Belgrade; Prof. Ljiljana Petrusovski, PhD; Student Katarina Despotovic 184/2013

MATHEMATICS IN ARCHITECTURE 2