

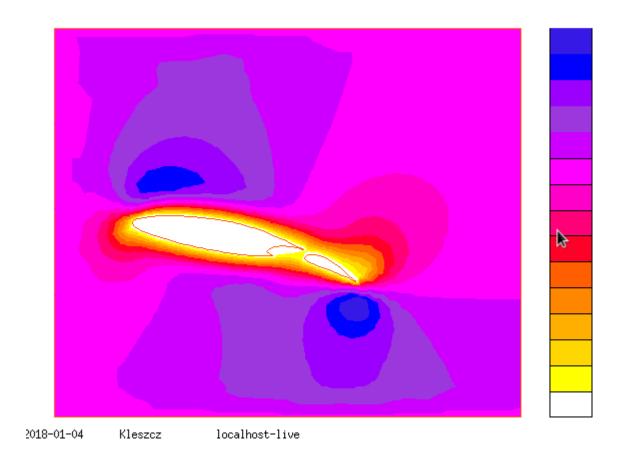
Przemysław Kleszcz Informatyka II st. Niestacjonarne **Zadanie 1** Program NS – 2D przepływy lepkie nieściśliwe (równania Naviera-Stokesa).

- Data_cav

Solve: 20

twodim

GRAPHICS

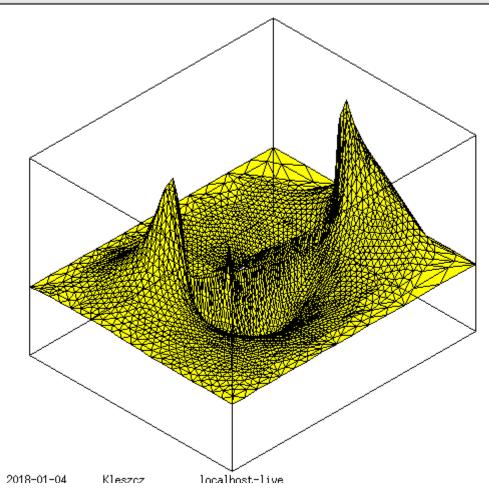


comp=1 –prędkość ux

Solve: 20

Tridim





comp=2 -prędkość uy

- Data_step

Solve:10

Twodim

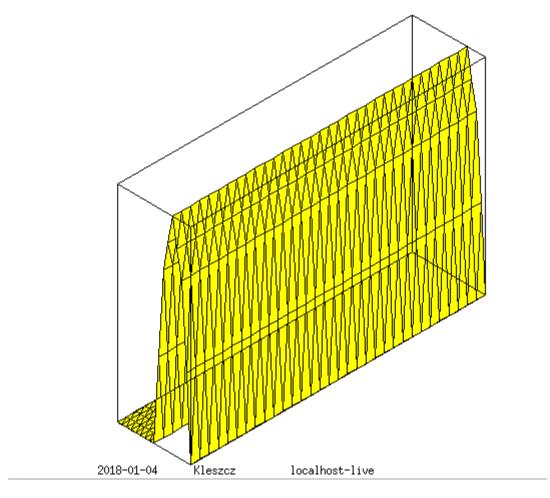
U1771 11100



comp=3 -ciśnienie p

Solve:10

Tridim



comp=2 -prędkość uy

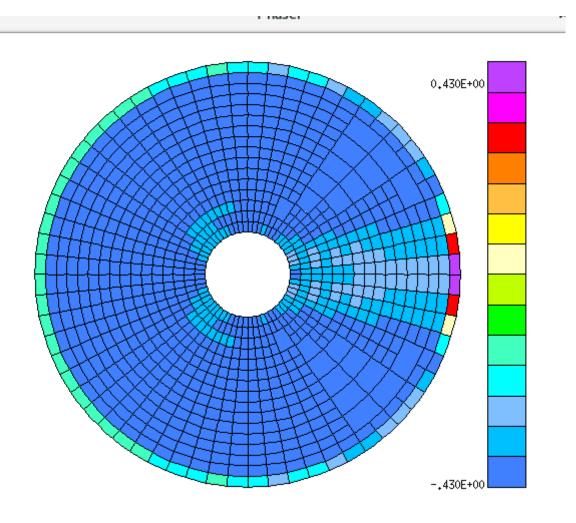
Zadanie 2 Program EM – 2D równania elektryczności (Maxwella) harmoniczne w czasie.

- Data_cyl

Omega: 1.0

Cyl 4

Angle: 180

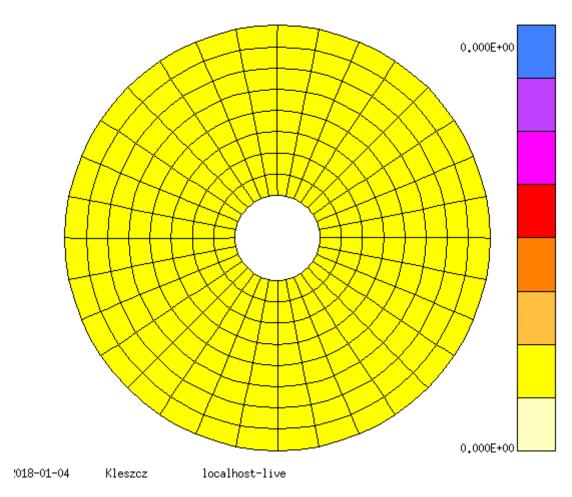


Comp= 1 -rzeczywiste pole elektryczne Ex

Omega: 1.0

diff 3

Angle: 120



comp= 2 -rzeczywiste pole elektryczne Ey

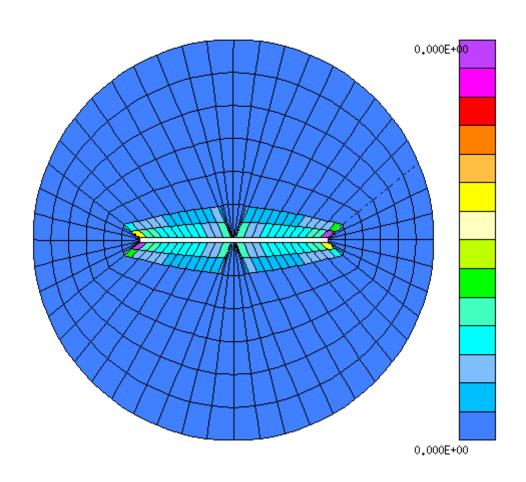
- Data_dipol3

Omega: 0.5

Dipol 4

Angle: 120

1114361

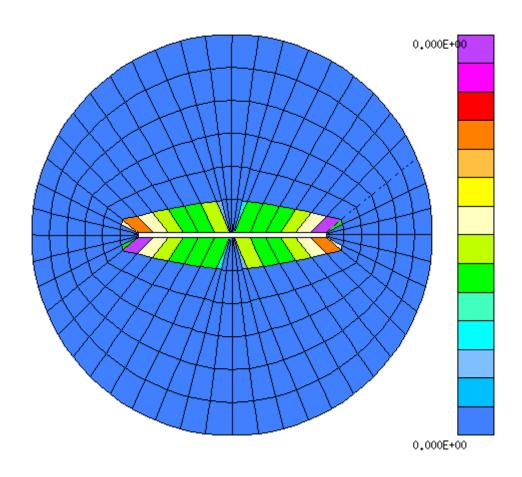


Comp = - 1 -urojone pole elektryczne Ex

Omega: 0.5

Dipol 4

Angle: 120



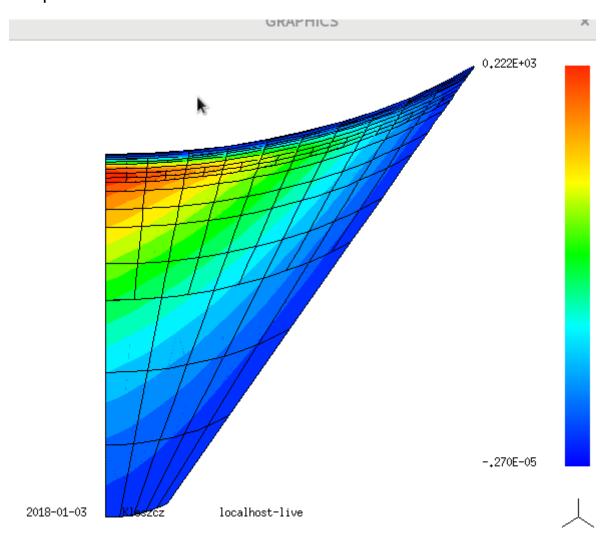
comp=-2 -urojone pole elektryczne Ey

Zadanie 3 Program LE – 3D liniowa sprężystość

- Data_cone

Comp=101

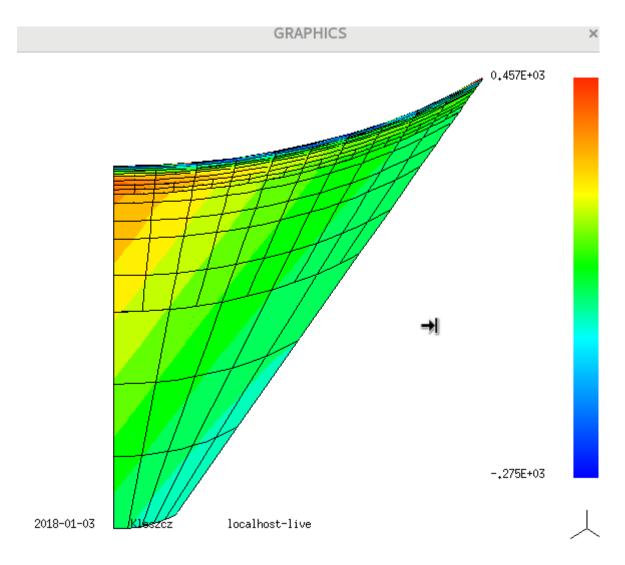
Twodim



comp=101 -przemieszczenia ux

Comp=105

Twodim

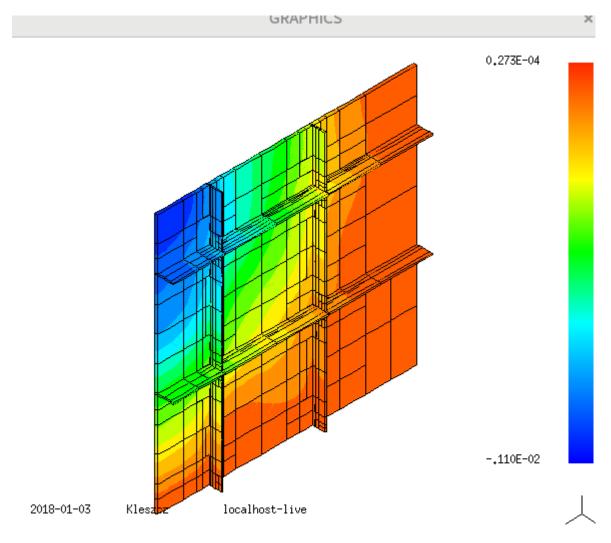


comp=105 naprężenia σyy

- Data_Plate

Comp=103

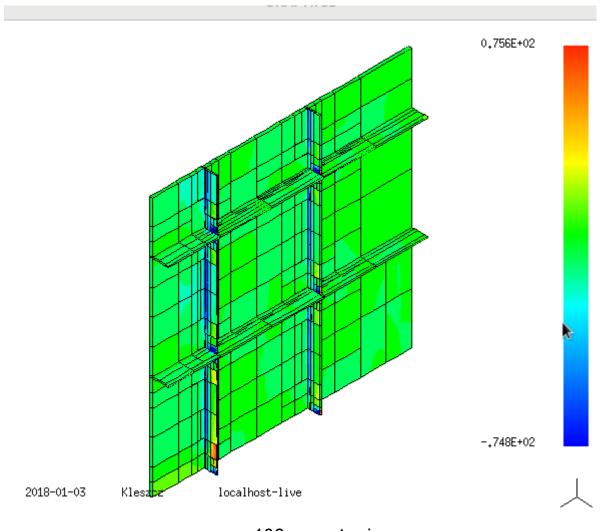
Twodim



comp=103 -przemieszczenia uz

Comp=106

Twodim



comp=106 naprężenia σzz

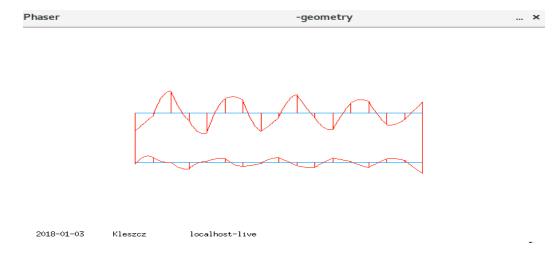
Zadanie 4 – Program BEM – 2D całka brzegowa dla równań Maxwella

- Data_rect

Omega = 15

Set incydent angle: 200

Comp=-1

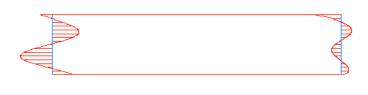


Urojony prąd elektryczny Jx

Omega = 18

Set incydent angle: 300

Comp=2



2018-01-03

Kleszcz

localhost-live

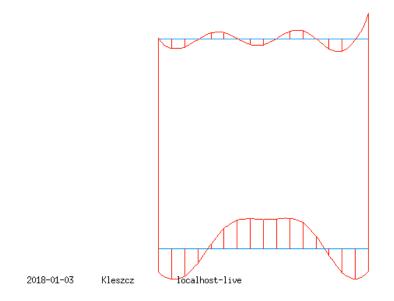
Rzeczywisty prąd elektryczny Jy

- data_squate

Omega = 11

Set incydent angle: 110

Comp=1

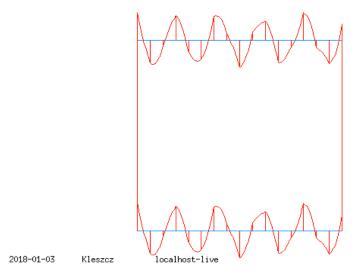


Rzeczywisty prąd elektryczny Jx

Omega = 20

Set incydent angle: 360

Comp=-2



Urojony prąd elektryczny Jy

NS – Przepływy nieściśliwe równanie Naviera-Stokes

EM - Równania Maxwella - harmoniczne w czasie

$$\begin{cases} XE = -i\omega vH \rightarrow H = \frac{-1}{i\omega v} * E \\ XH = i\omega \varepsilon H + \sigma E + J \end{cases}$$

LE- Liniowa Sprężystość

$$\begin{cases} \frac{-\sigma ij}{xi} = fi \\ \in_{ij} = \frac{1}{2} \left(\frac{ui}{xj} + \frac{ui}{xj} \right) \\ \sigma ij = 2u \in_{ij} + \lambda \in_{kk} + \delta_{ij} \\ v = v \\ \delta_{ij} = t_i \end{cases}$$