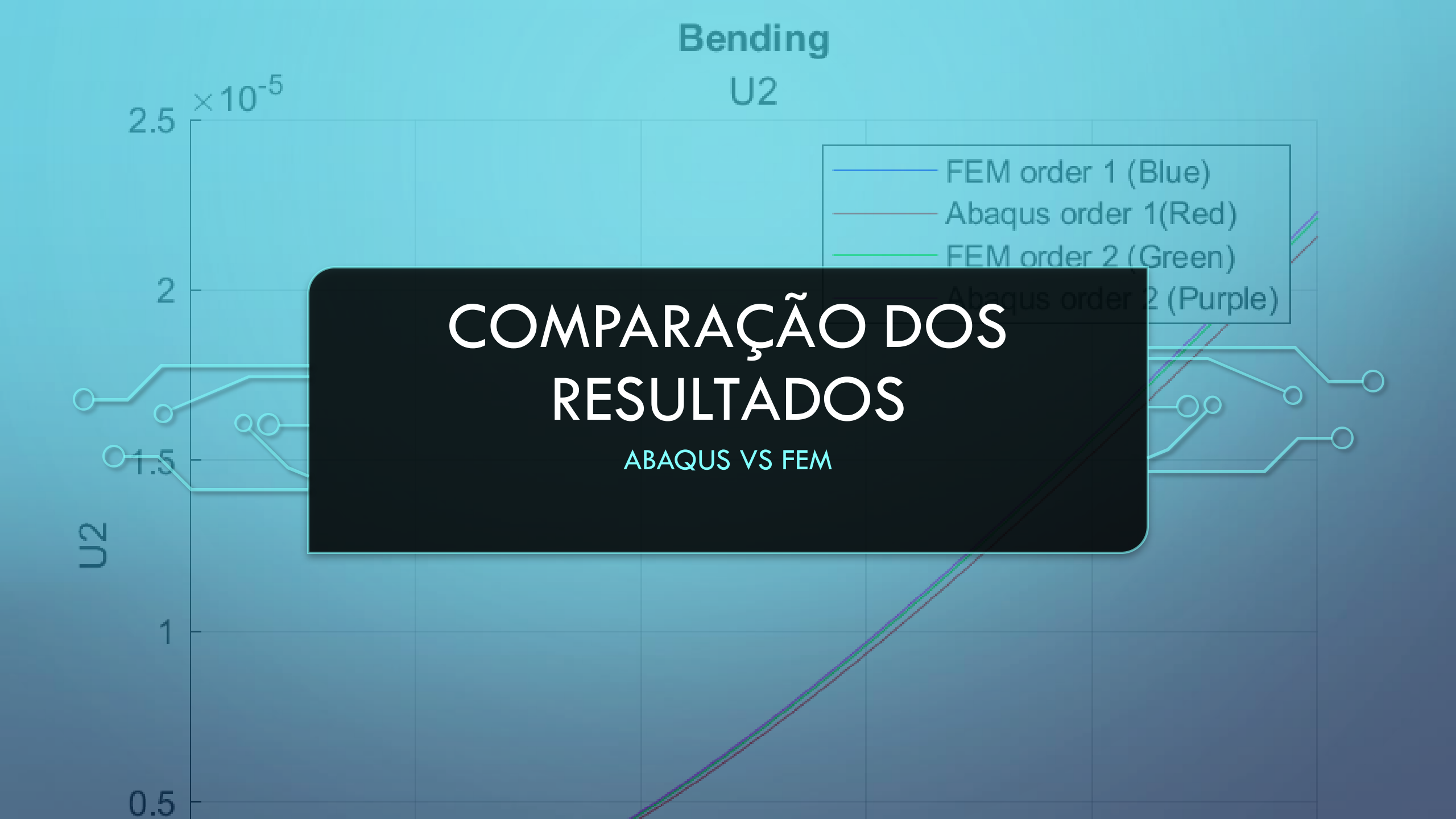
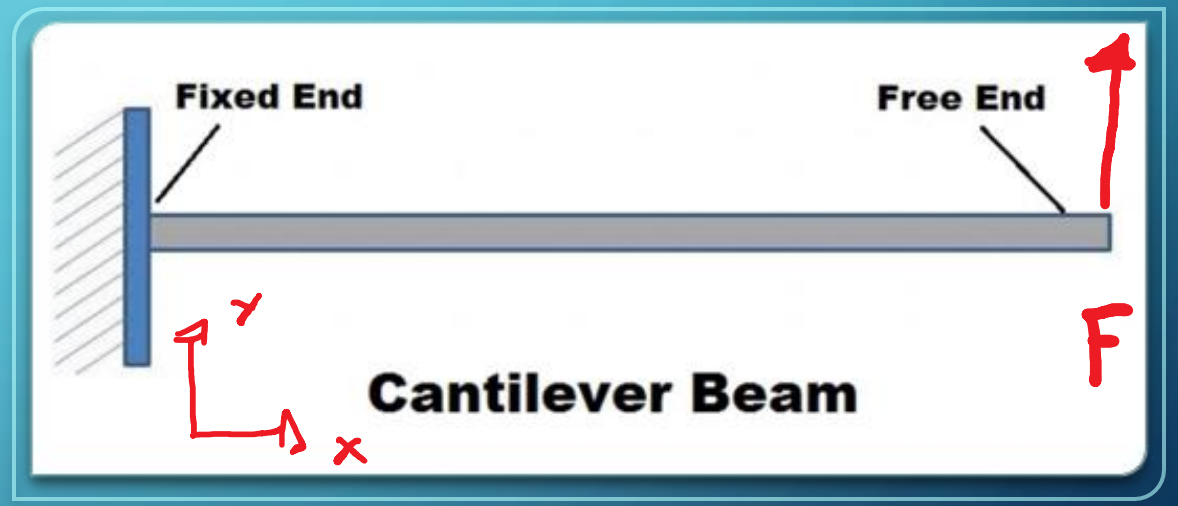


COMPARAÇÃO DOS RESULTADOS

ABAQUS VS FEM

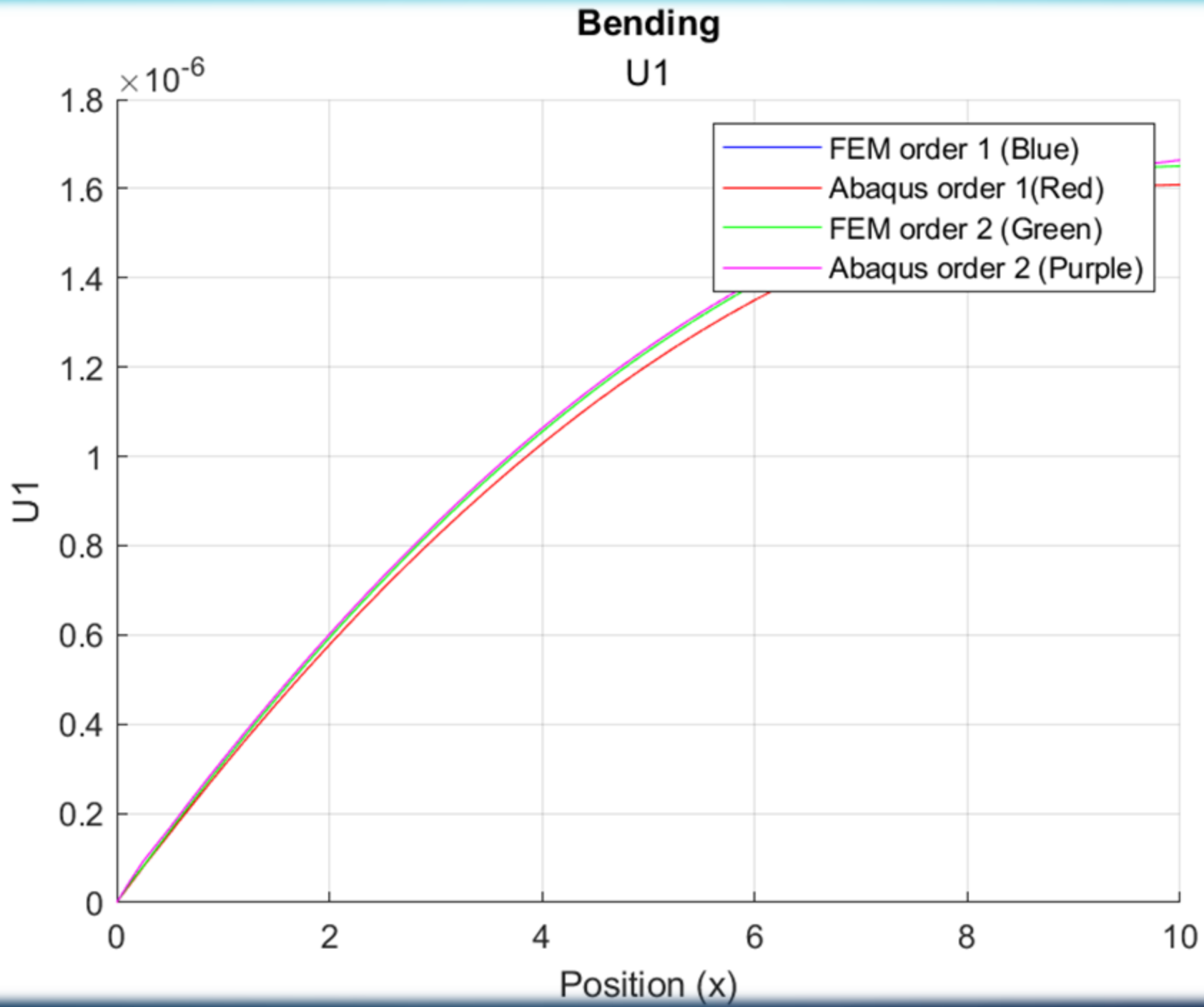
PARÂMETROS

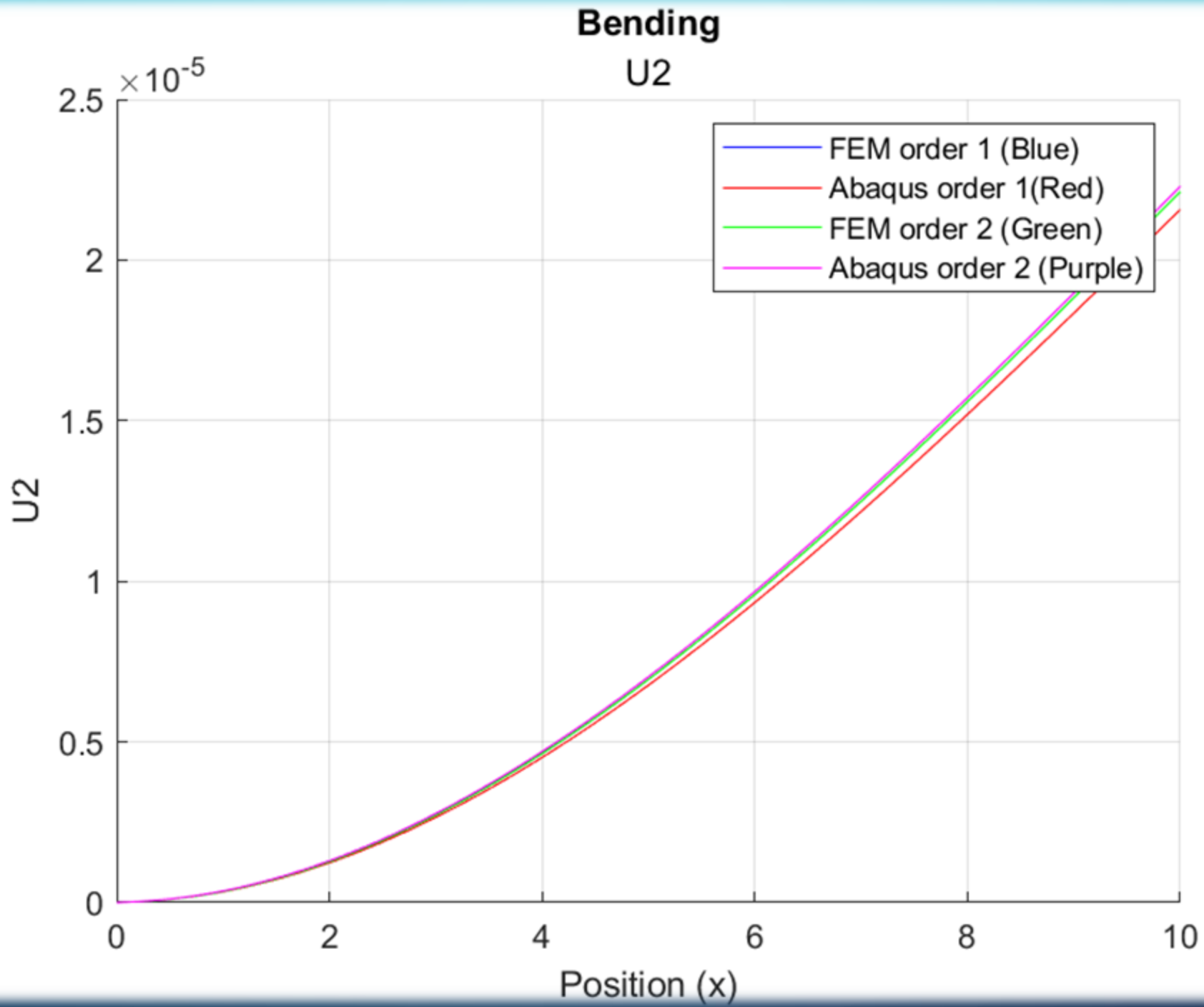
- Comprimento = 10 [m]
- Altura = 1 [m]
- F = 11e2 [N]
- Elementos em x = 40
- Elementos em y = 10



RESULTADOS

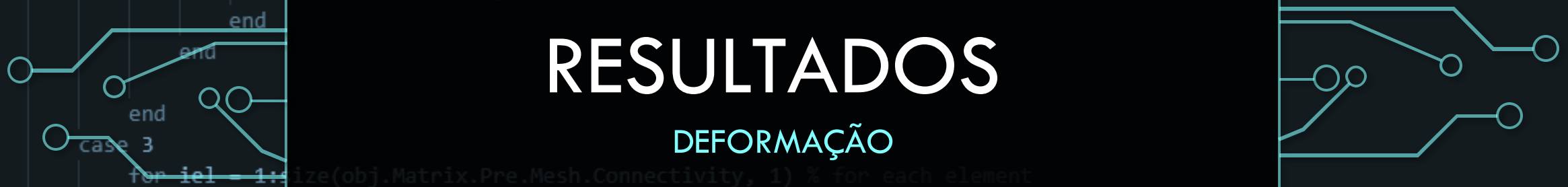
DESLOCAMENTO

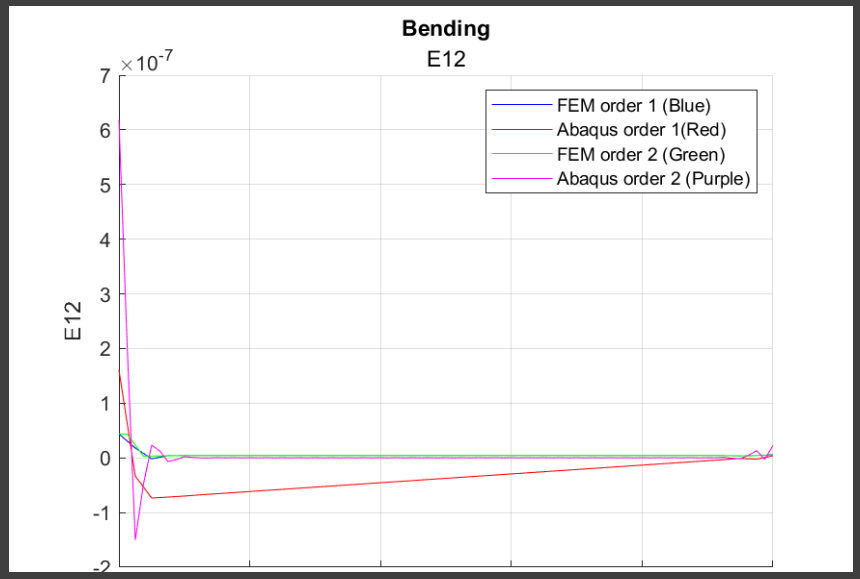

Bending
U1
×10^-6
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
U1
0
2
4
6
8
10
Position (x)
FEM order 1 (Blue)
Abaqus order 1(Red)
FEM order 2 (Green)
Abaqus order 2 (Purple)

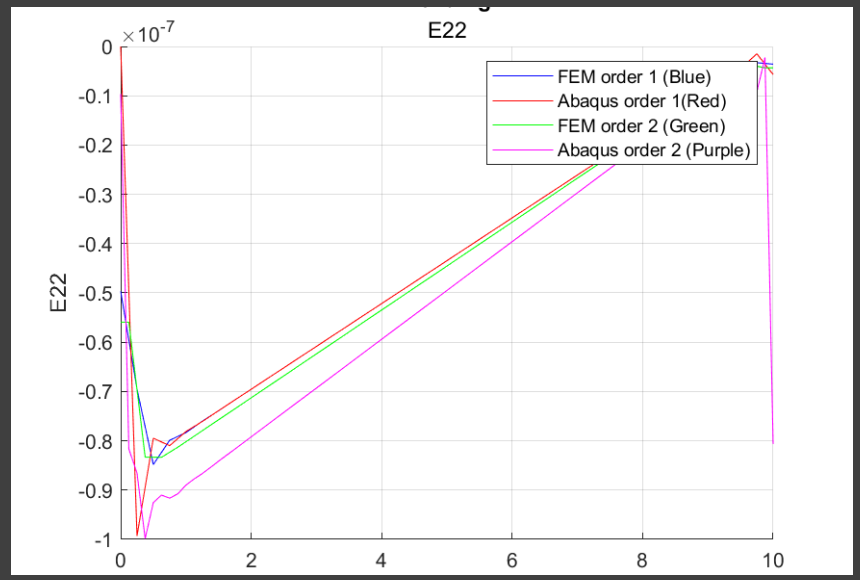

Bending
U2
×10^-5
2.5
2
1.5
1
0.5
0
U2
0
2
4
6
8
10
Position (x)
FEM order 1 (Blue)
Abaqus order 1(Red)
FEM order 2 (Green)
Abaqus order 2 (Purple)

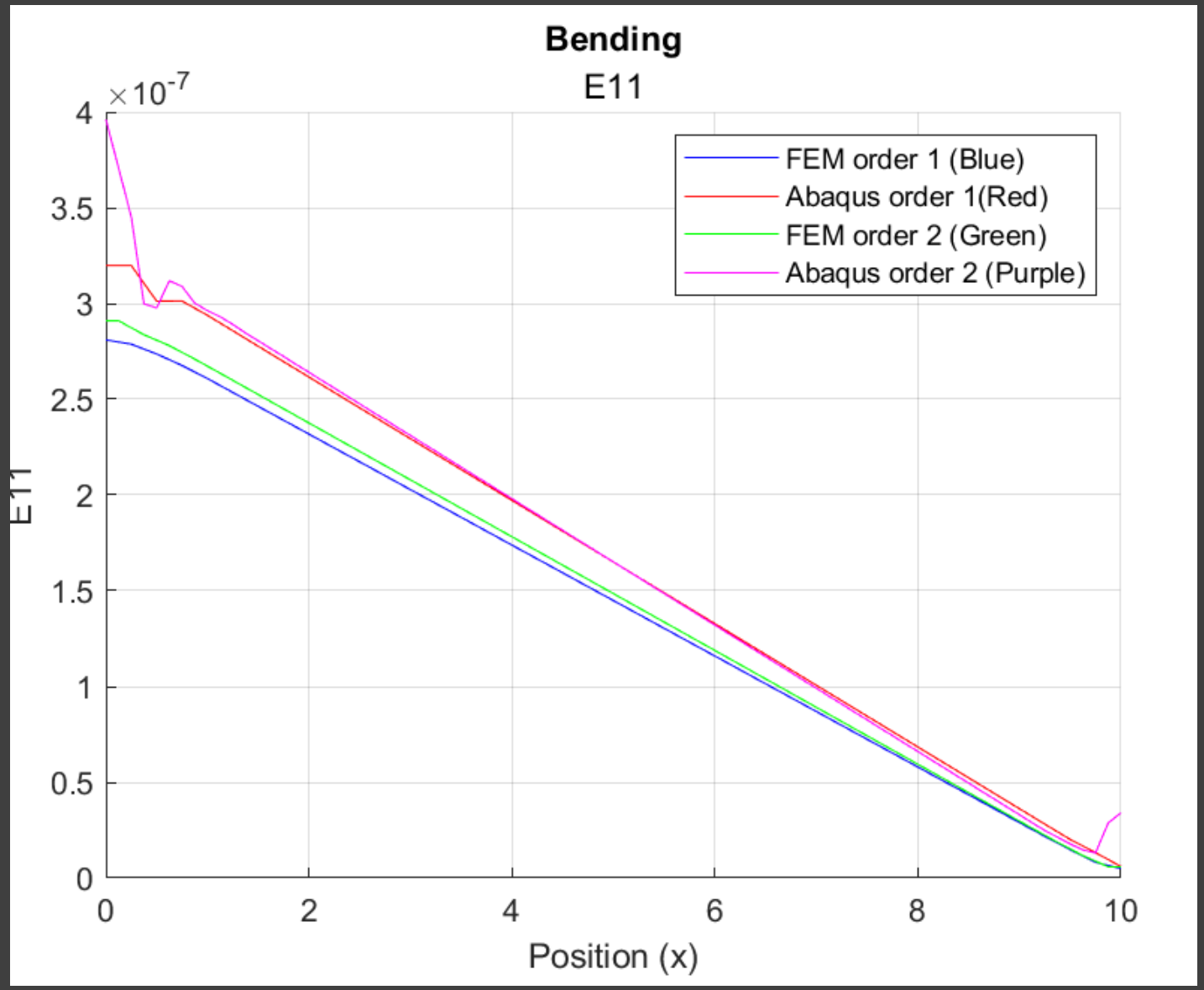
RESULTADOS

DEFORMAÇÃO



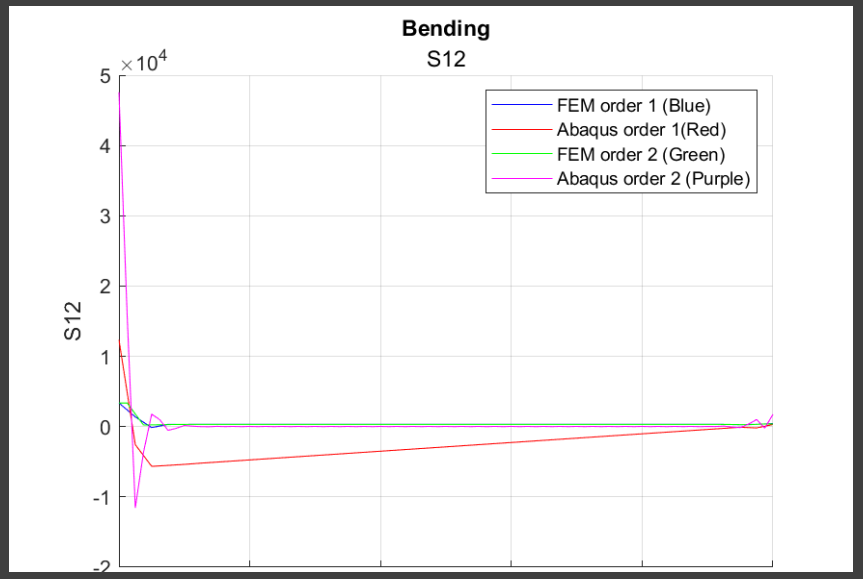

Bending
E12
×10^-7
E12
FEM order 1 (Blue)
Abaqus order 1(Red)
FEM order 2 (Green)
Abaqus order 2 (Purple)

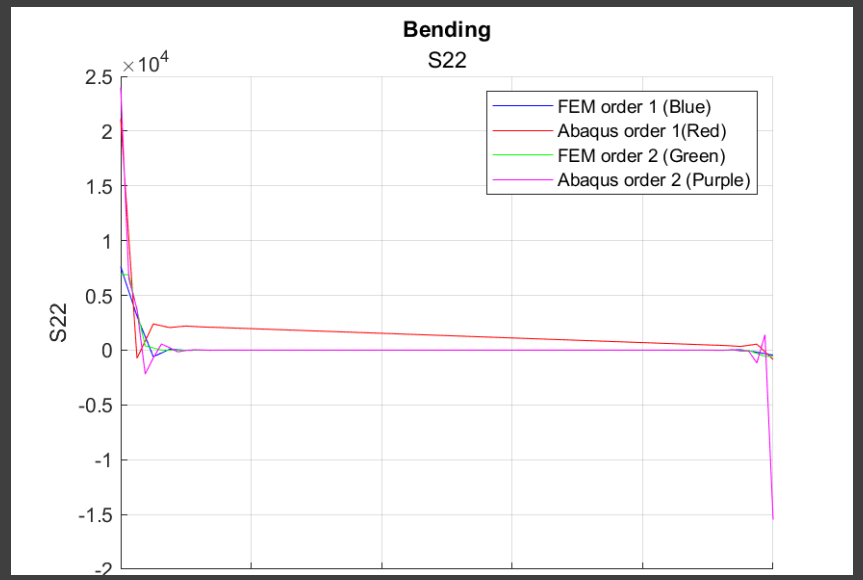

E22
×10^-7
E22
FEM order 1 (Blue)
Abaqus order 1(Red)
FEM order 2 (Green)
Abaqus order 2 (Purple)

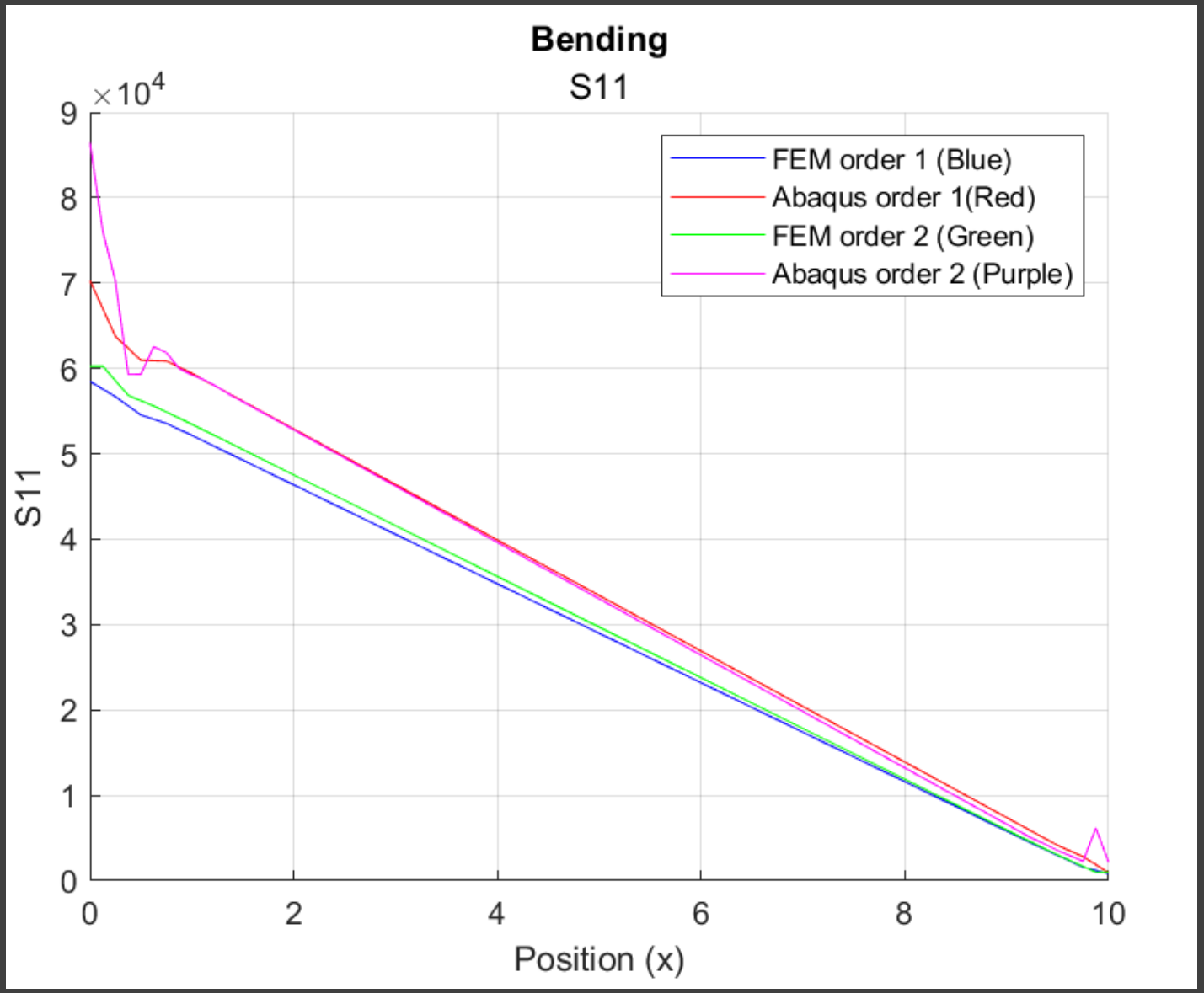

Bending
E11
×10^-7
E11
Position (x)
FEM order 1 (Blue)
Abaqus order 1(Red)
FEM order 2 (Green)
Abaqus order 2 (Purple)

RESULTADOS

TENSÃO


Bending
S12
×10^4
5
4
3
2
1
0
-1
-2
S12
FEM order 1 (Blue)
Abaqus order 1(Red)
FEM order 2 (Green)
Abaqus order 2 (Purple)


Bending
S22
×10^4
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
S22
FEM order 1 (Blue)
Abaqus order 1(Red)
FEM order 2 (Green)
Abaqus order 2 (Purple)


Bending
S11
×10^4
9
8
7
6
5
4
3
2
1
0
S11
0
2
4
6
8
10
Position (x)
FEM order 1 (Blue)
Abaqus order 1(Red)
FEM order 2 (Green)
Abaqus order 2 (Purple)