

# Problem info

Problem type: Electrostatics

Geometry model class: Axisymmetric

Problem database file names:

- Problem: *ES\_Axial.pbm*
- Geometry: *Es\_axial.mod*
- Material Data: *Es\_axial.des*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

# Geometry model

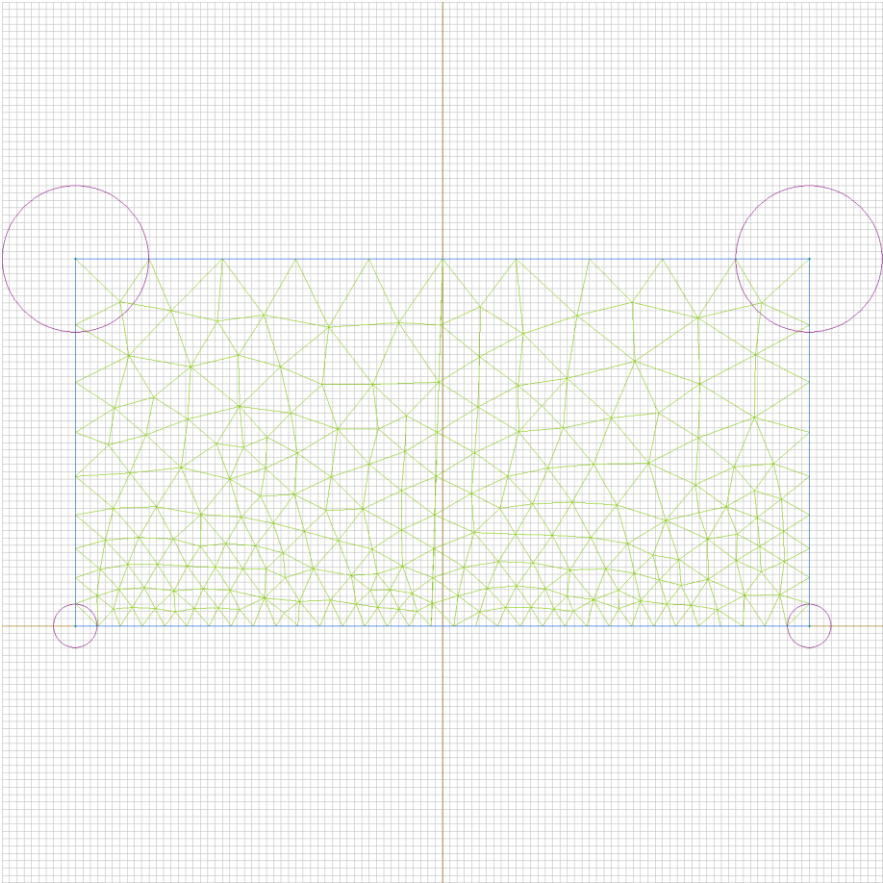


Table 1. Geometry model statistics

	With Label	Total
Blocks	1	1
Edges	2	4
Vertices	0	4

Number of nodes: 240.

# Labelled objects

There are following labelled objects in the geometry model (Material Data file could contain more labels, but only those labels that assigned to geometric objects are listed)

Blocks:

- [vacuum](#)
- 

Edges:

- [U+](#)
- [U=0](#)
- 

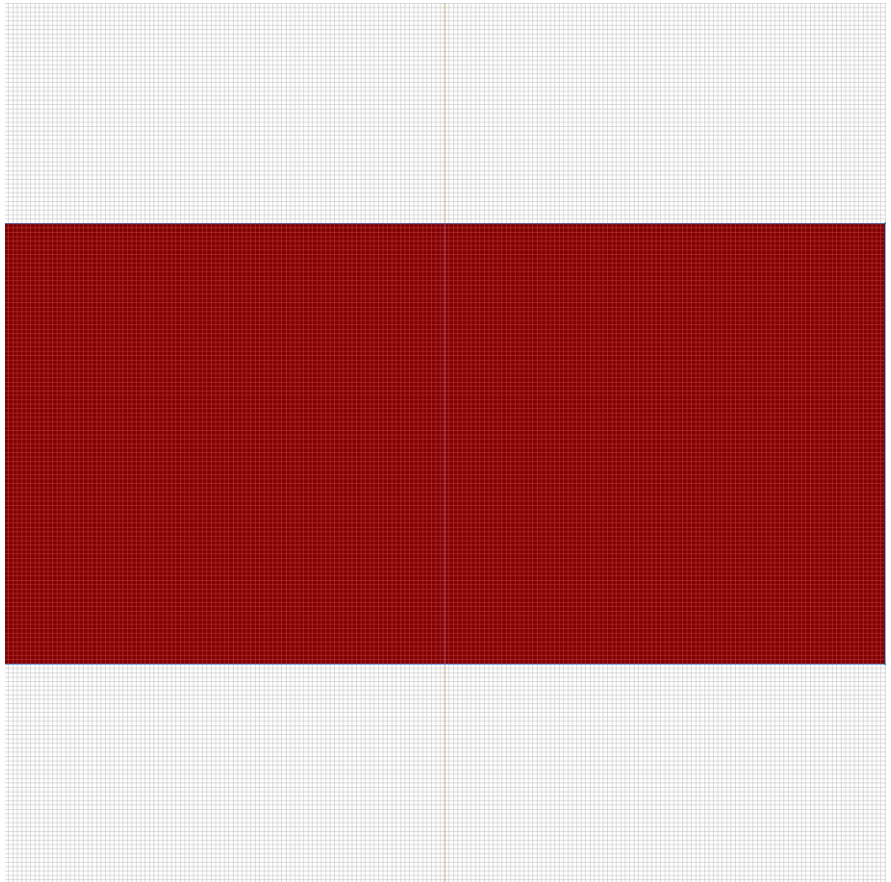
Vertices:

Detailed information about each label is listed below.

Labelled objects: block "vacuum"

There are (1) objects with this label

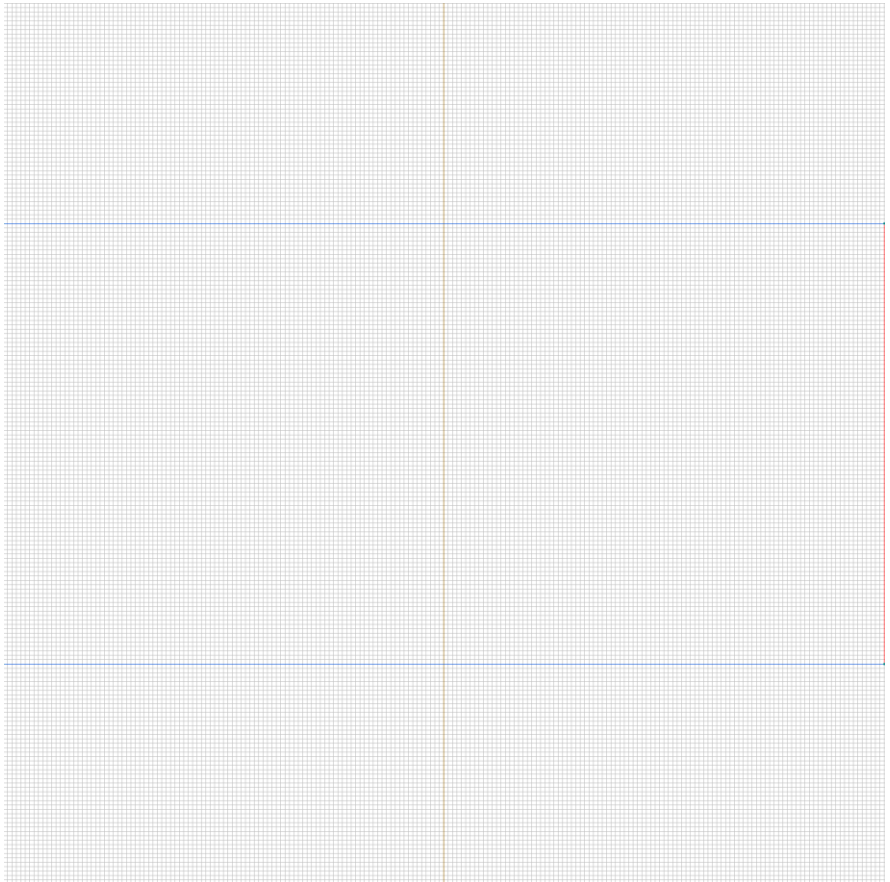
Relative electric permittivity  $\epsilon_{x=1}$ ,  $\epsilon_{y=1}$



Labelled objects: edge "U+"

There are (1) objects with this label

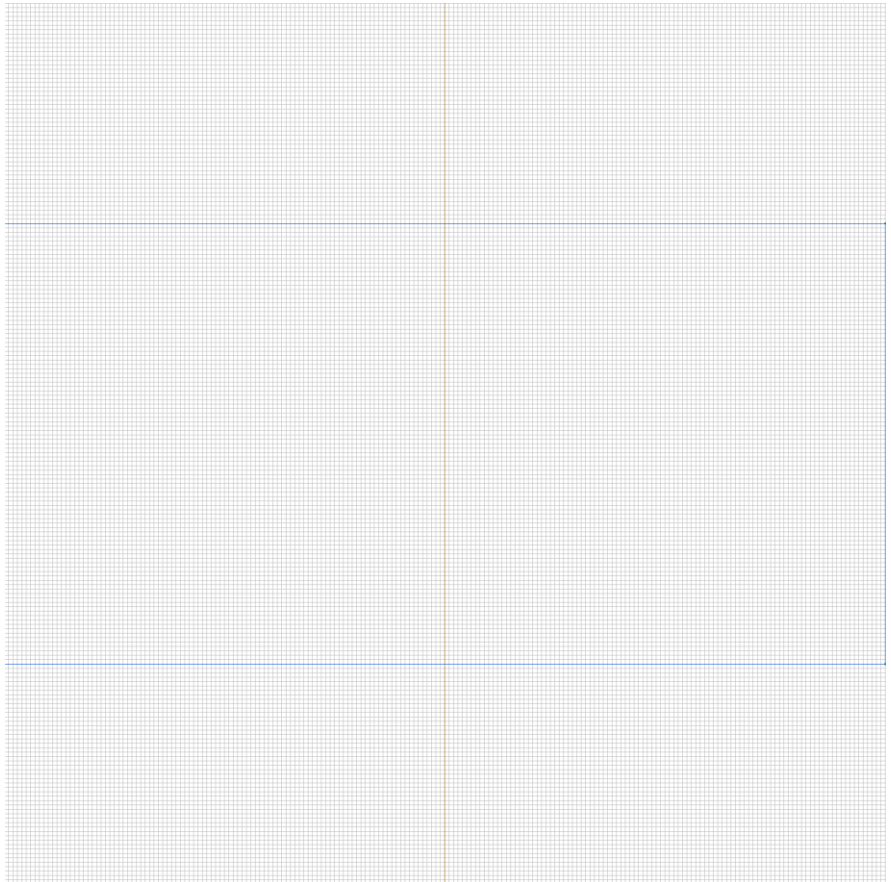
Voltage  $U=20$  [V]



Labelled objects: edge "U=0"

There are (1) objects with this label

Voltage U=0 [V]

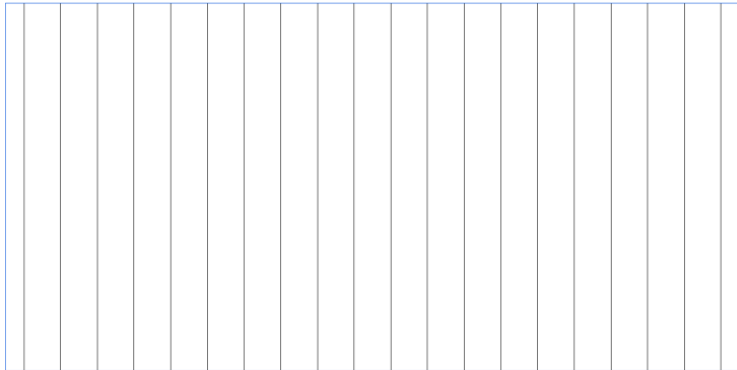






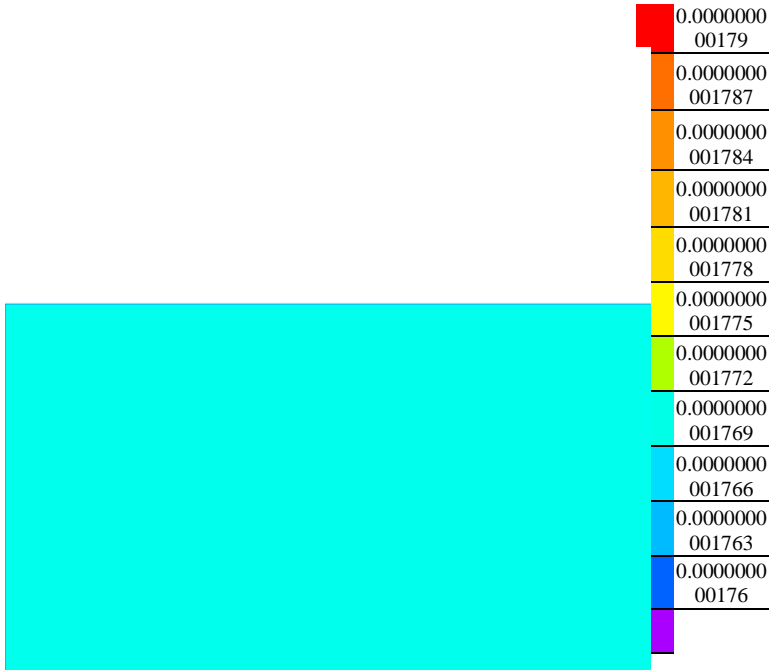
# Results

Field lines



# Results

Color map of Electric induction  $|D|$  [C/m<sup>2</sup>]



# Nonlinear dependencies

No non-linear dependencies are used in this problem data