Problem info

Problem type: Electrostatics
Geometry model class: Axisymmetric
Problem database file names:

- Problem: *rogowski.pbm*
- Geometry: *Rogowski.mod*
- Material Data: *Rogowski.des*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

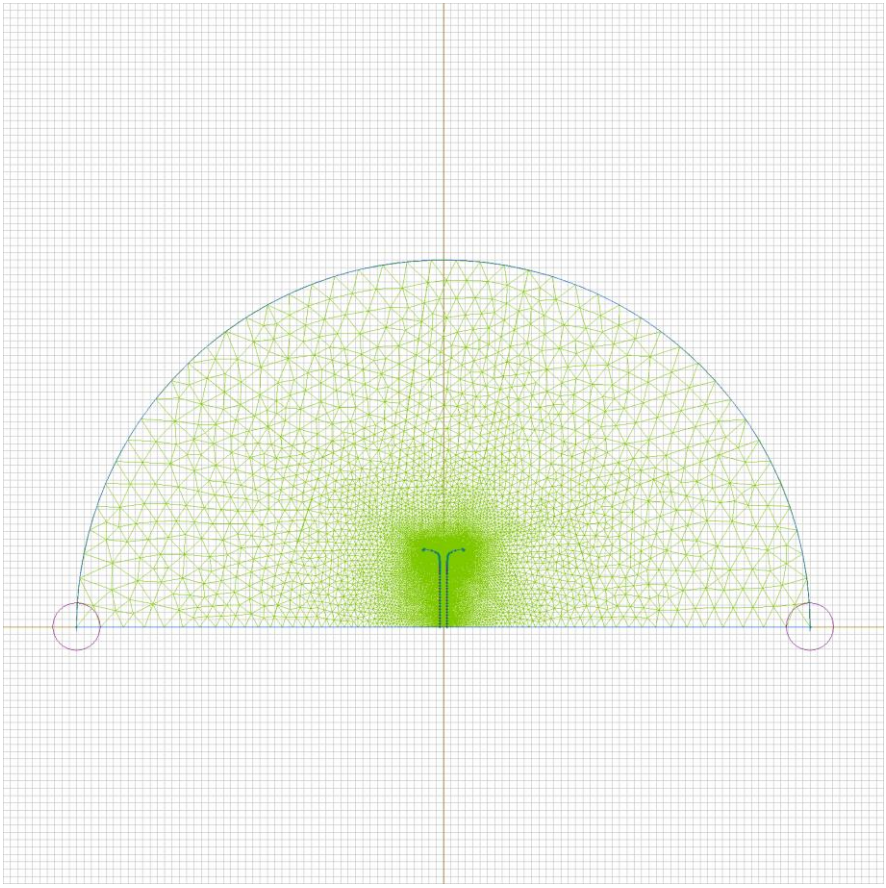


Table 1. Geometry model statistics

	With Label	Total
Blocks	1	1
Edges	4	78
Vertices	0	78

Number of nodes: 45885.

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)

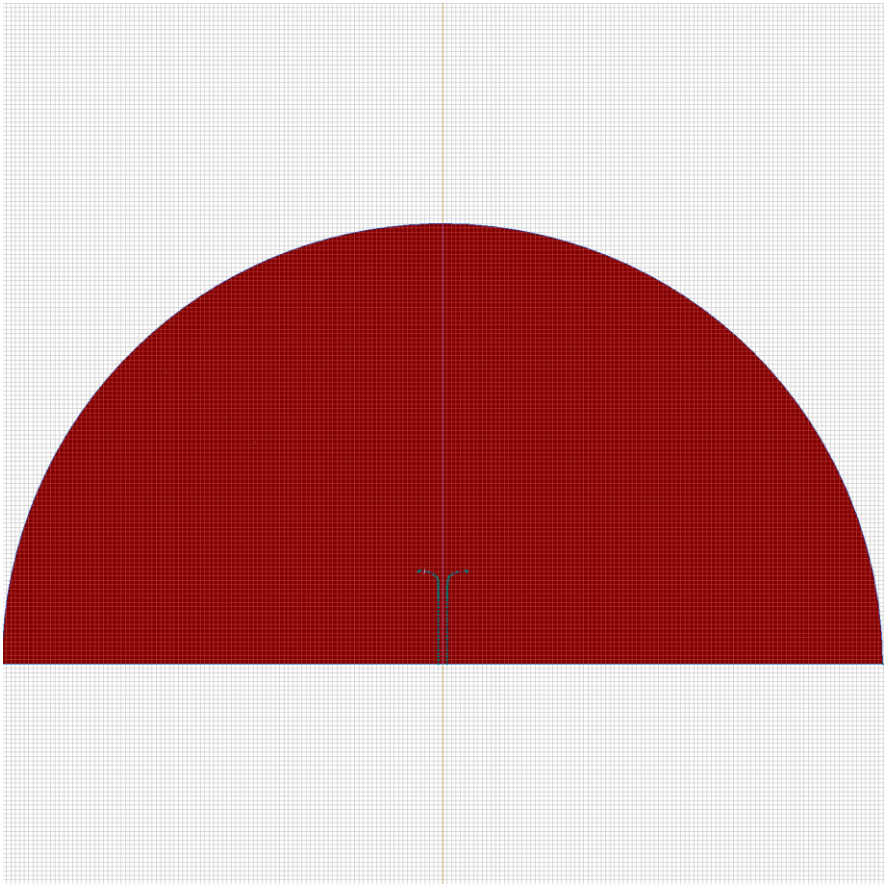
Blocks:	Edges:	Vertices:
• air •	• U- • U+ • axis • boundary •	

Detailed information about each label is listed below.

Labelled objects: block "air"

There are (1) objects with this label

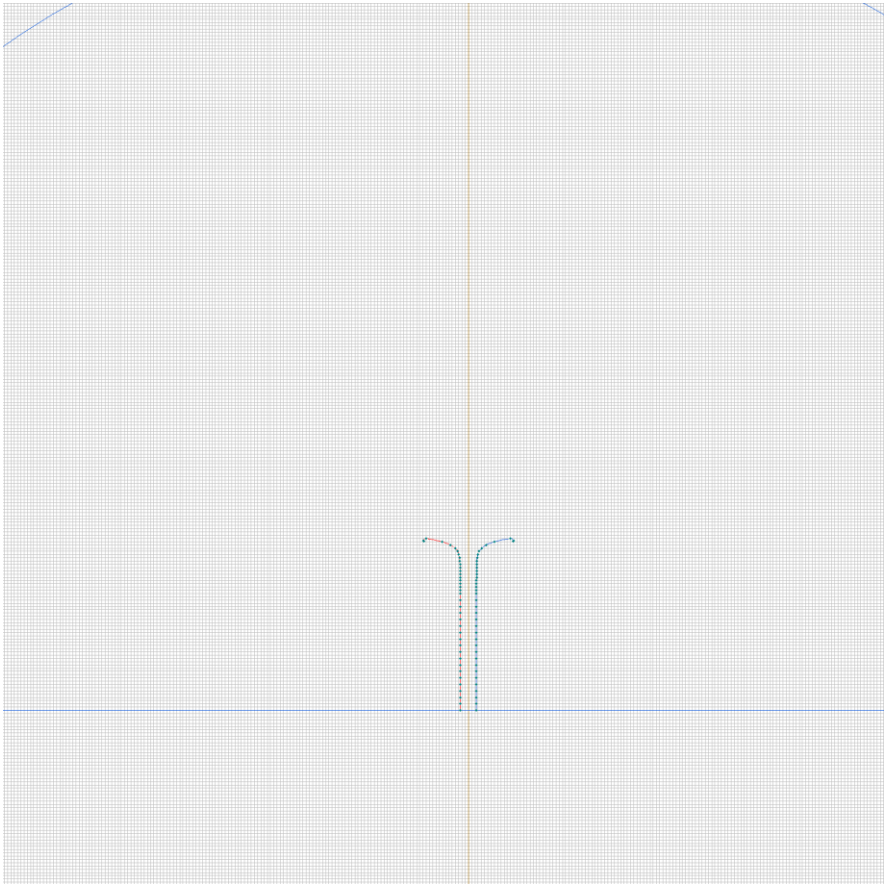
Relative electric permittivity eps_x=1, eps_y=1



Labelled objects: edge "U-"

There are (37) objects with this label

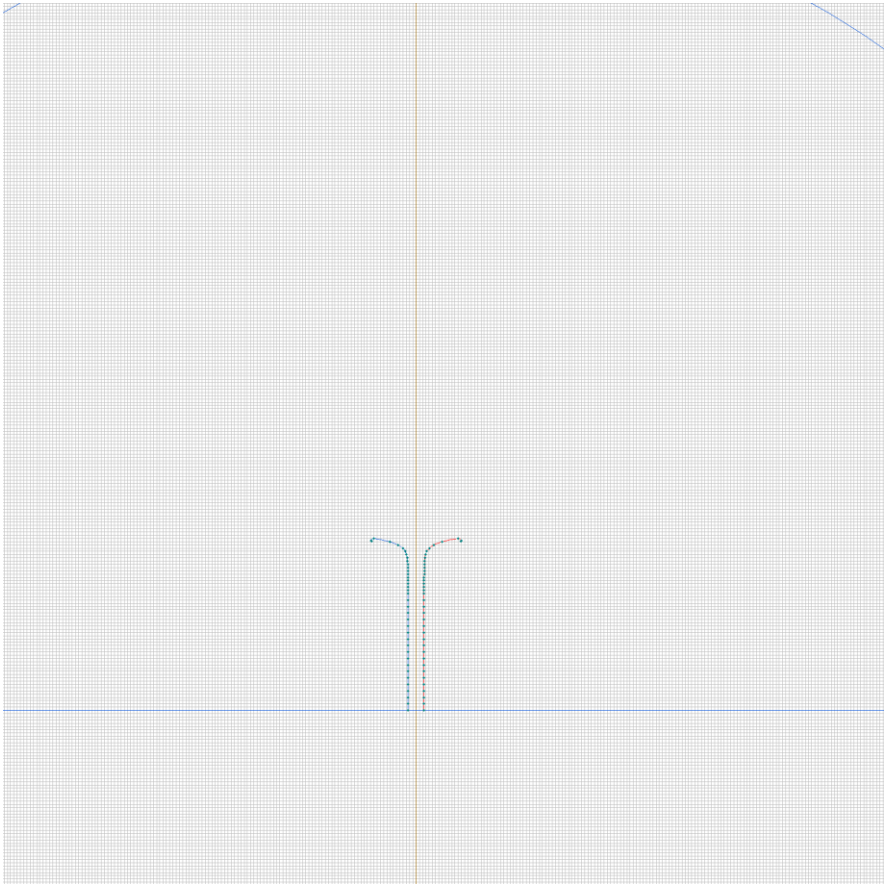
Voltage U=-1000 [V]



Labelled objects: edge "U+"

There are (37) objects with this label

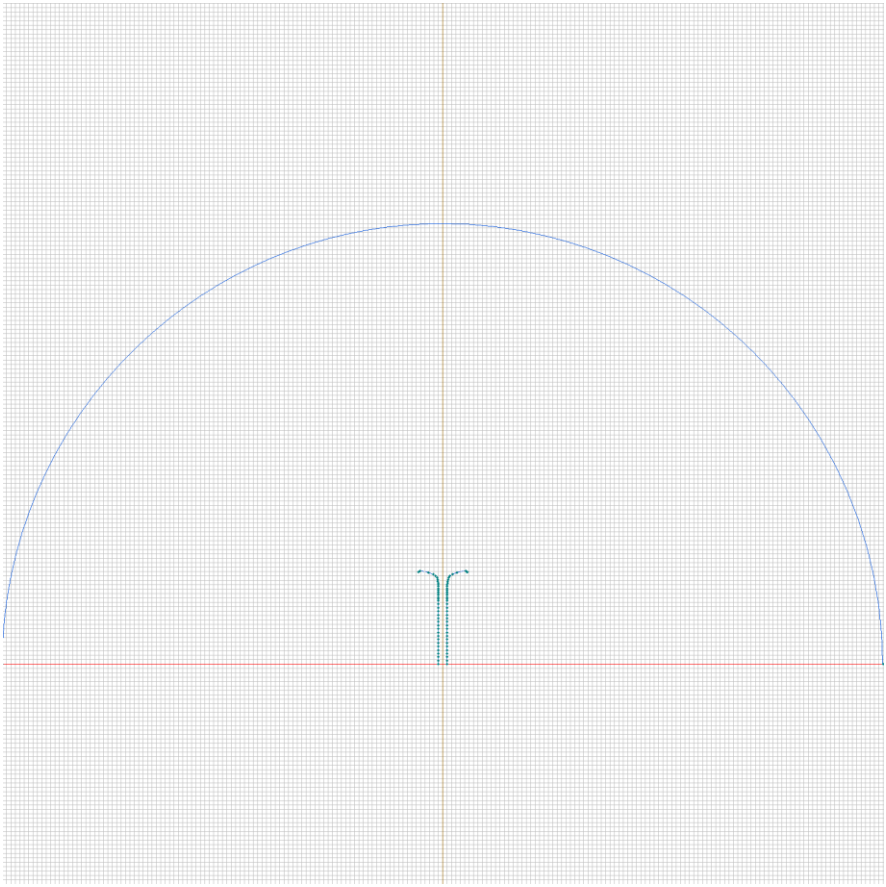
Voltage U=1000 [V]



Labelled objects: edge "axis"

There are (3) objects with this label

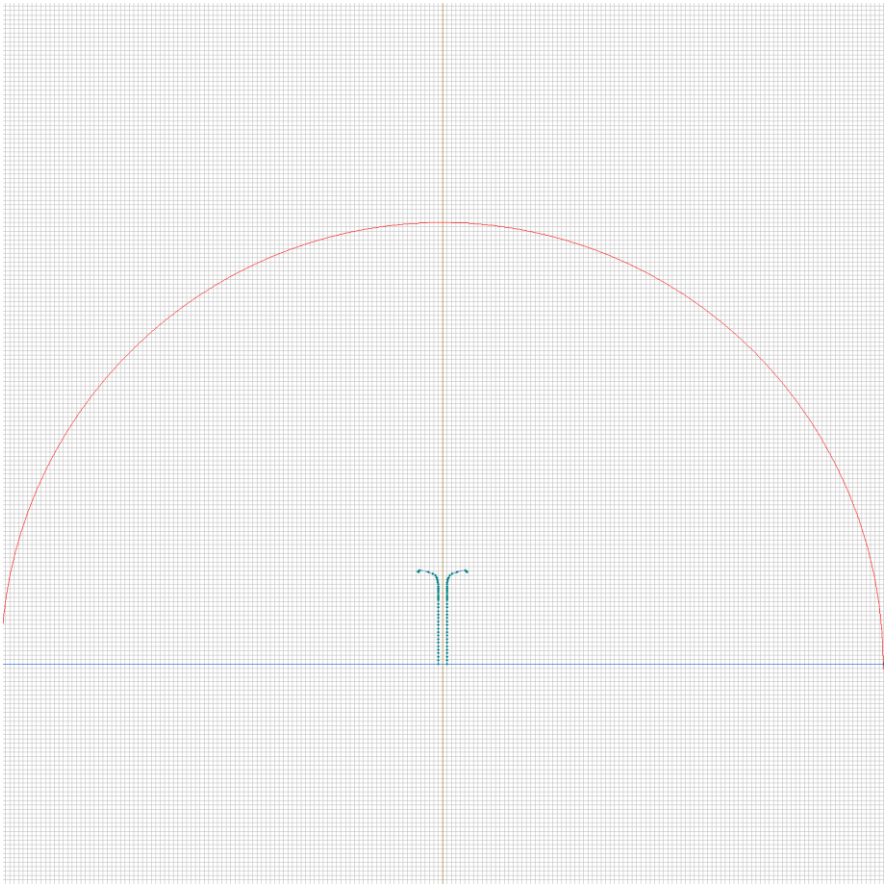
No material data (boundary conditions) are specified



Labelled objects: edge "boundary"

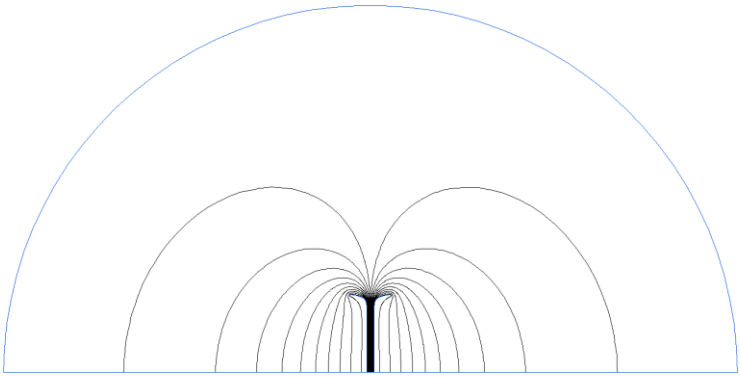
There are (1) objects with this label

Voltage U=0 [V]



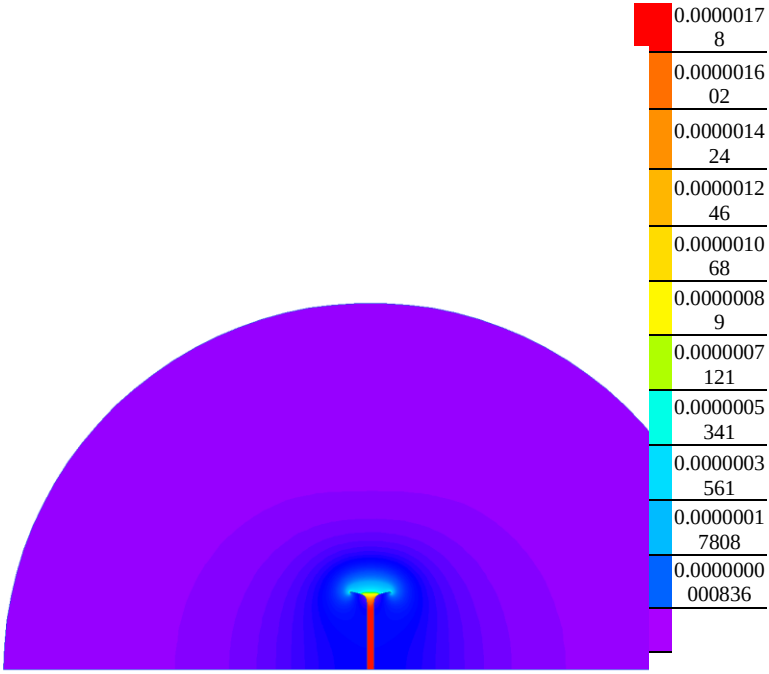
Results

Field lines



Results

Color map of Electric induction |D| [C/m2]



Nonlinear dependencies

No non-linear dependencies are used in this problem data