

Problem info

Problem type: Magnetostatics

Geometry model class: Axisymmetric

Problem database file names:

- Problem: *two_ring_pm_pull.pbm*
- Geometry: *Two_ring_pm_pull.mod*
- Material Data: *Two_ring_pm_pull.dms*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

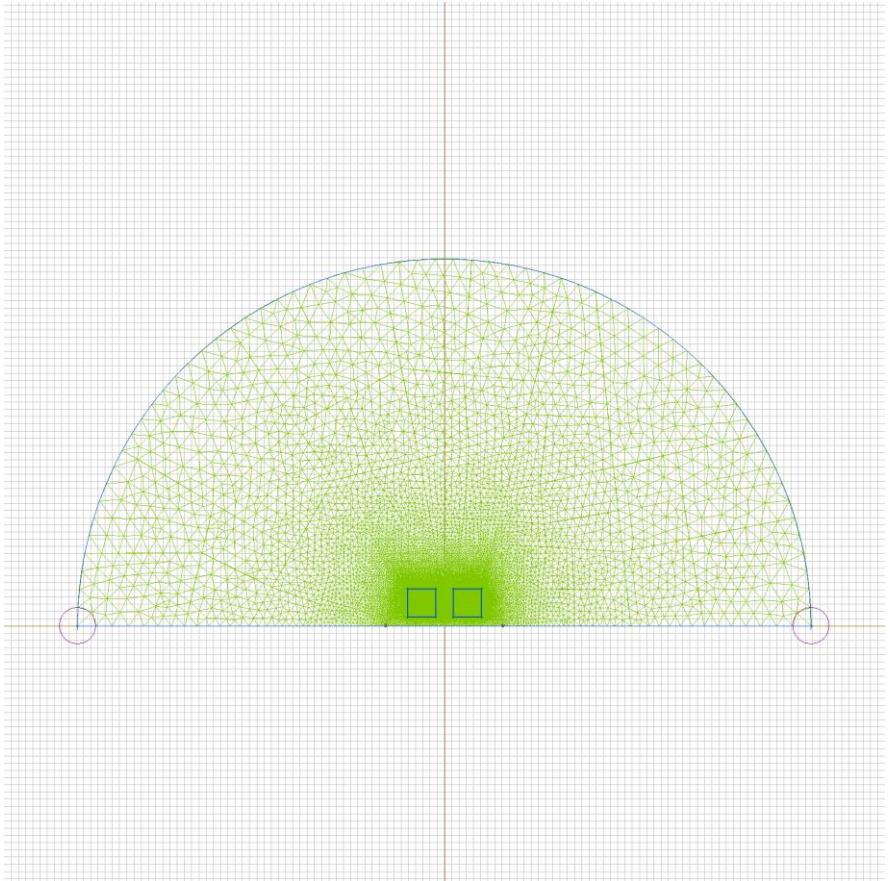


Table 1. Geometry model statistics

	With Label	Total
Blocks	3	5
Edges	1	20
Vertices	0	20

Number of nodes: 95823.

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:

- [air](#)
- [N35_left](#)
- [N35_right](#)
-

Edges:

- [A=0](#)
-

Vertices:

Detailed information about each label is listed below.

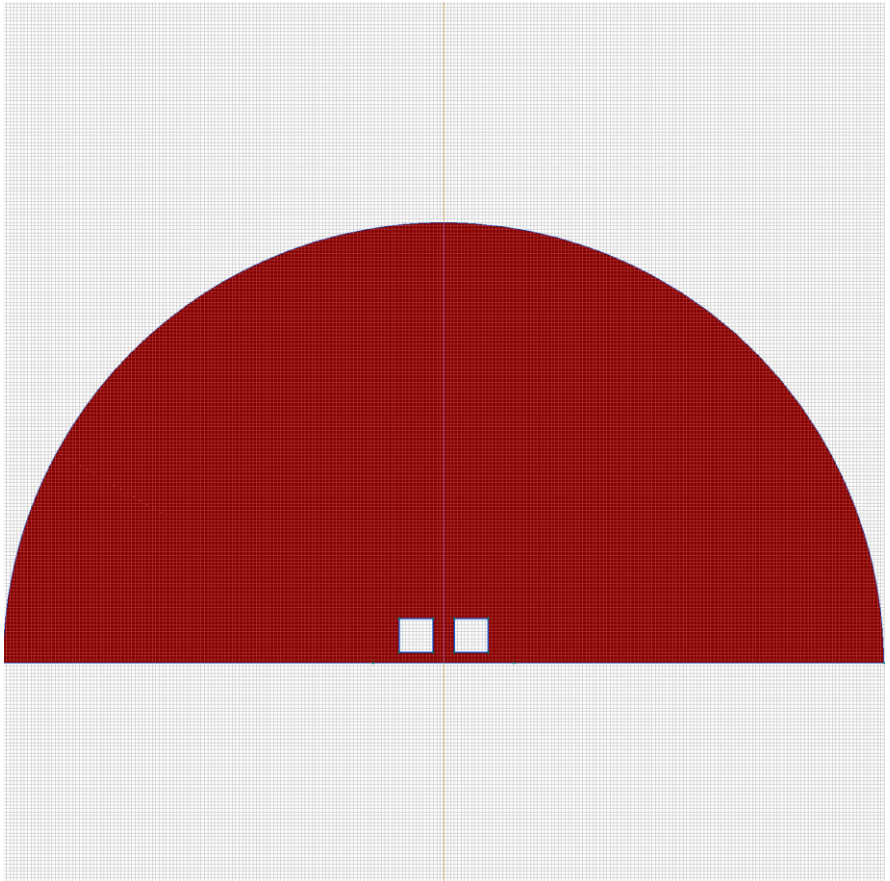
Labelled objects: block "air"

There are (3) objects with this label

Relative magnetic permeability: $\mu_x=1$, $\mu_y=1$

Current density: $j=0$ [A/m²]

Conductor's connection: in parallel



Labelled objects: block "N35_left"

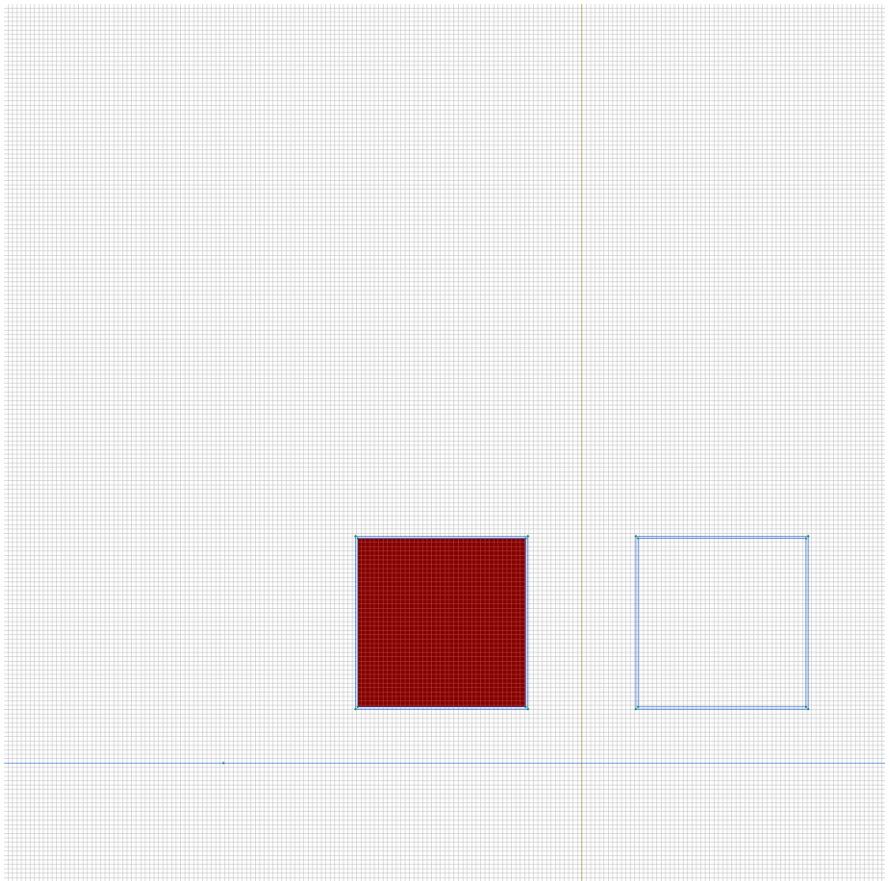
There are (1) objects with this label

Relative magnetic permeability: $\mu_x=1.05$, $\mu_y=1.05$

Coercive force: $H_c=954900$ [A], direction: 0 [deg]

Current density: $j=0$ [A/m²]

Conductor's connection: in parallel



Labelled objects: block "N35_right"

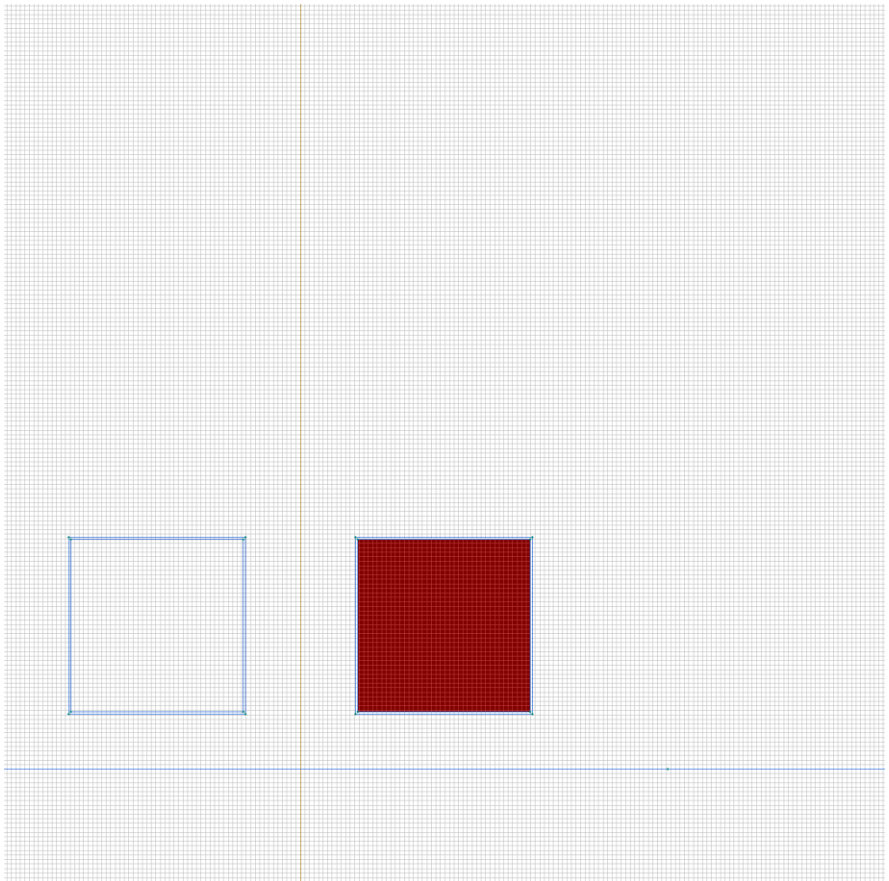
There are (1) objects with this label

Relative magnetic permeability: $\mu_x=1.05$, $\mu_y=1.05$

Coercive force: $H_c=954900$ [A], direction: 0 [deg]

Current density: $j=0$ [A/m²]

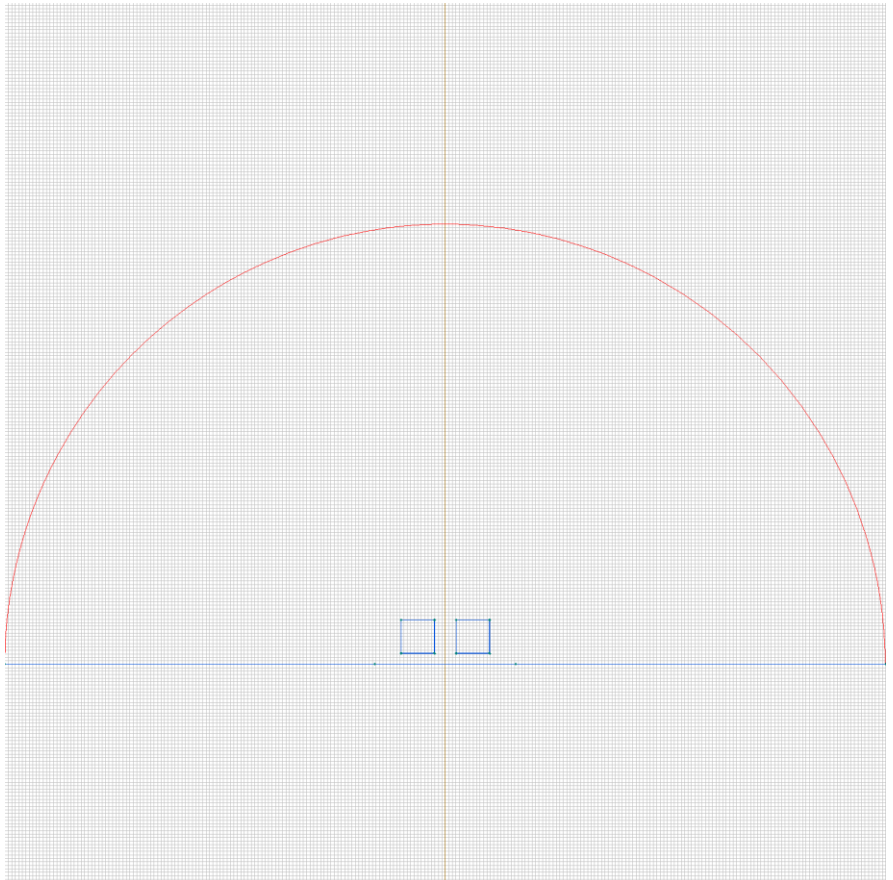
Conductor's connection: in parallel



Labelled objects: edge "A=0"

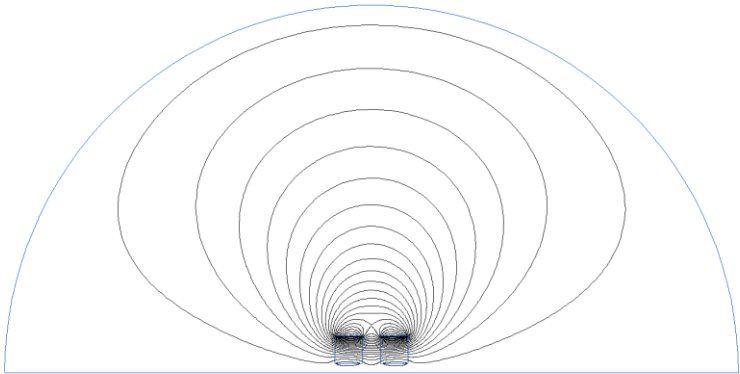
There are (1) objects with this label

Magnetic potential: $A=0$ [Wb/m]



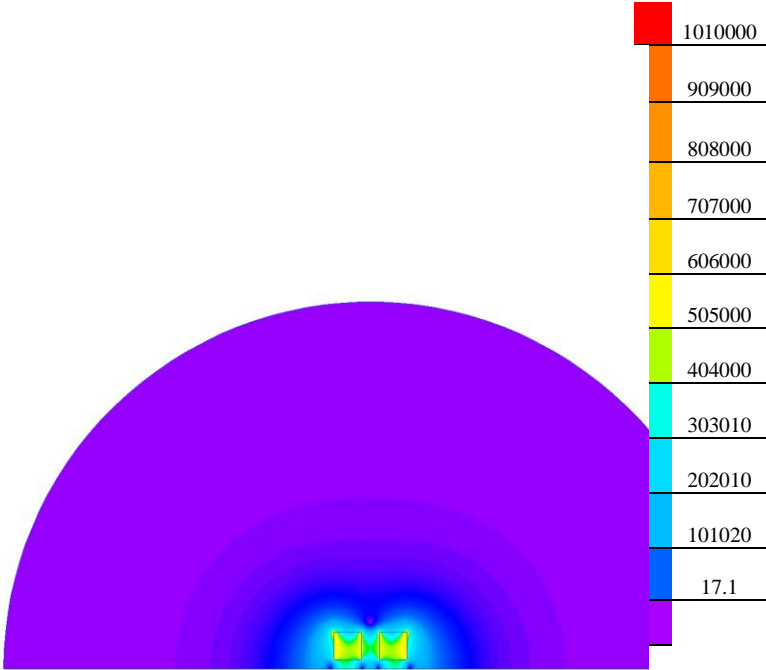
Results

Field lines



Results

Color map of Strength $|H|$ [A/m]



Nonlinear dependencies

No non-linear dependencies are used in this problem data