Problem info

Problem type: Transient Heat Transfer (integration time: 180 s.)
Geometry model class: Plane-Parallel
Problem database file names:

- Problem: *THeat2.pbm*
- Geometry: *Theat2.mod*
- Material Data: *Theat2.dht*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *Temperature Field: Theat2_i.pbm*

Geometry model

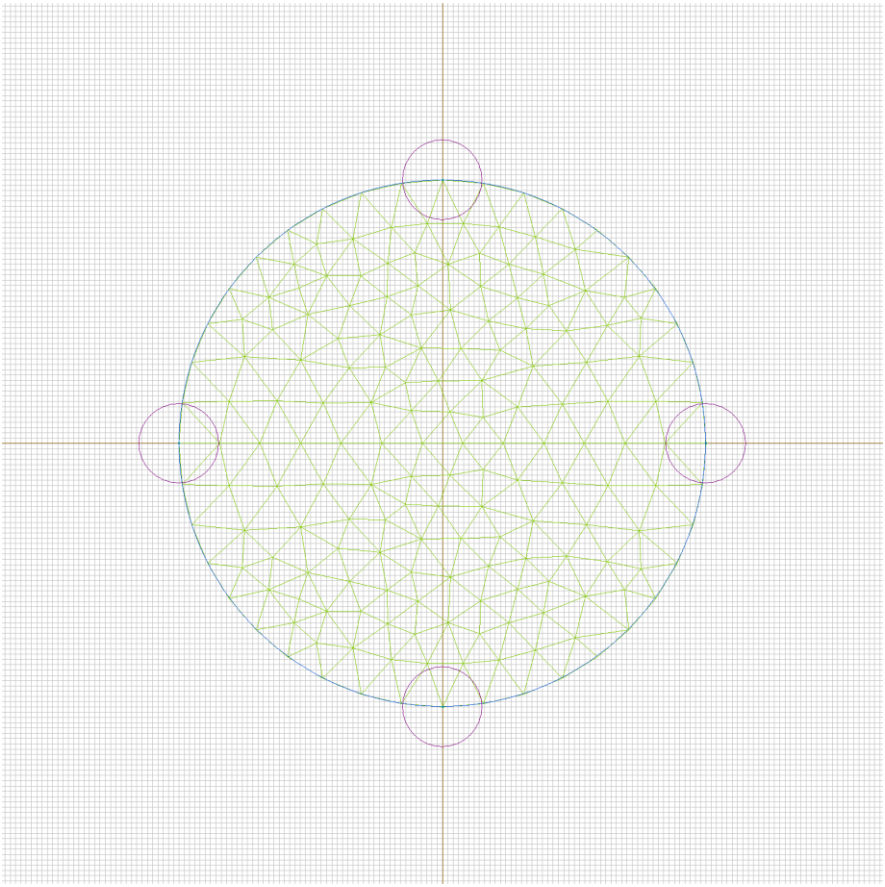


Table 1. Geometry model statistics

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

Number of nodes: 178.

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)

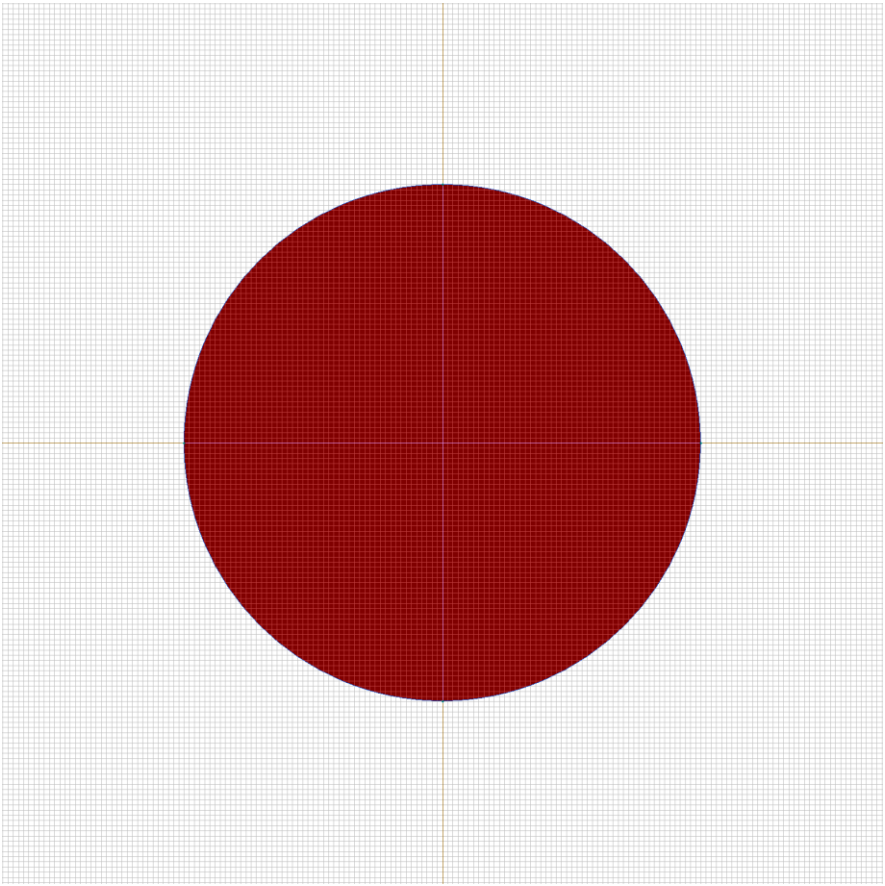
Blocks:	Edges:	Vertices:
• wire •	• conv •	

Detailed information about each label is listed below.

Labelled objects: block "wire"

There are (1) objects with this label

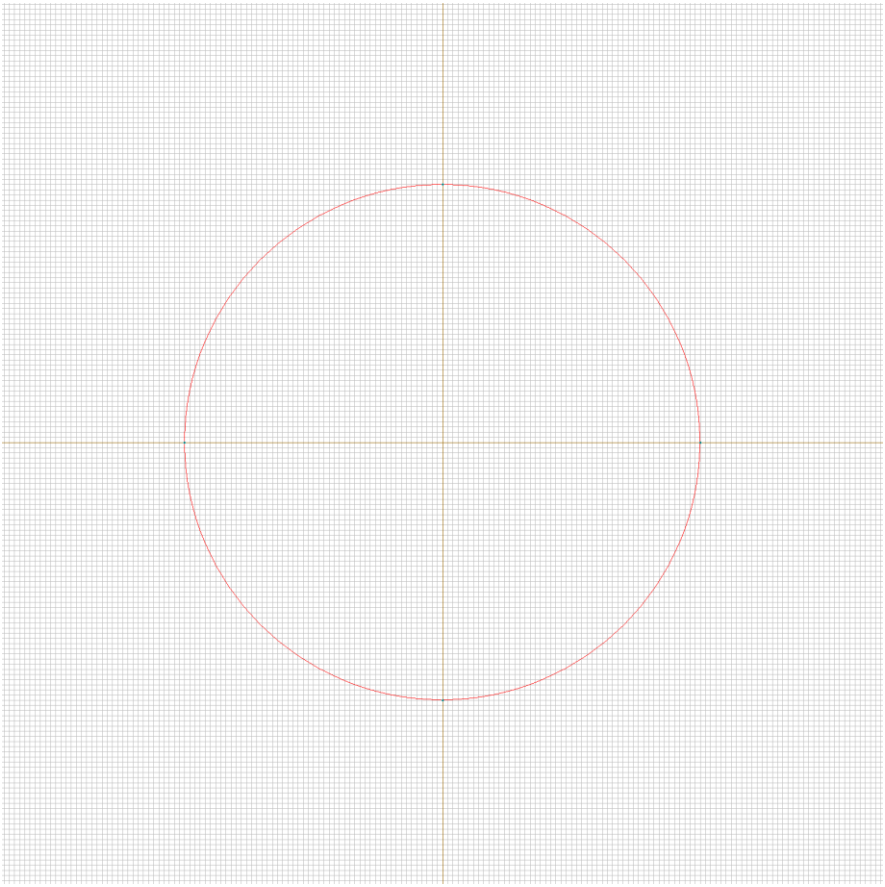
Thermal conductivity: lambda_x=391 [W/(K*m)], lambda_y=391 [W/(K*m)]
Specific heat: C=383 [J/(kg*K)]
Mass density: rho=8930 [kg/m3]



Labelled objects: edge "conv"

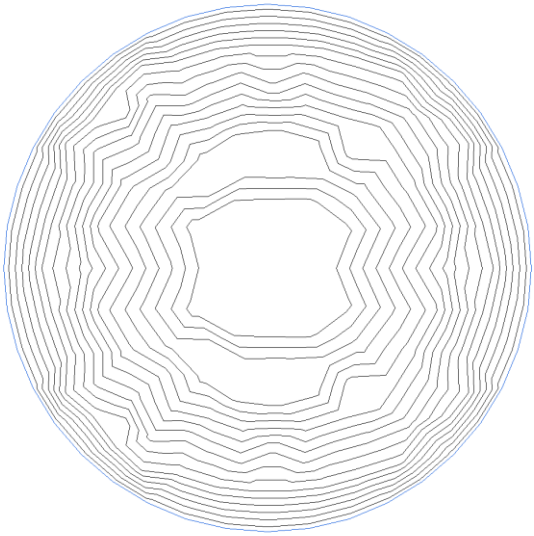
There are (4) objects with this label

Convection: alpha=10 [W/(K*m2)], temperature T0=-233.15 [K]



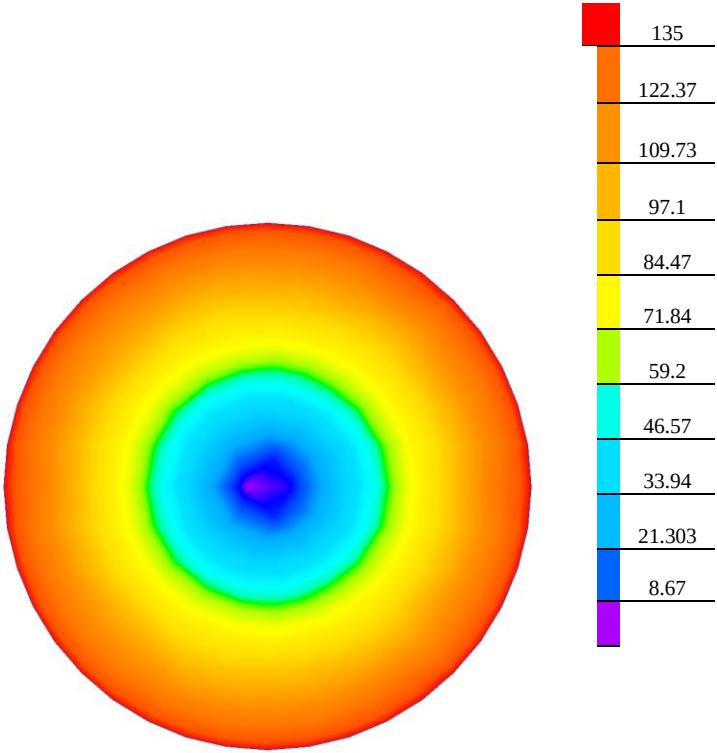
Results

Field lines



Results

Color map of Heat flux |F| [W/m2]



Nonlinear dependencies

No non-linear dependencies are used in this problem data