Applied Numerical Methods - Lab 4

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Stationary heat conduction in 1-D

In a one dimensional pipe we are interested in the temperature evolution along the z-axis. We will study the behaviour of the numerical solution based on finite differences.

a) Reformulation of the problem

Bla bla bla

b) Discretize to a system of equation

Bla bla bla

c) Resolution

Bla bla bla

d) Comparison of methods

Bla bla bla

e) Improvements

Bla bla bla

f) Visualization

Bla bla bla