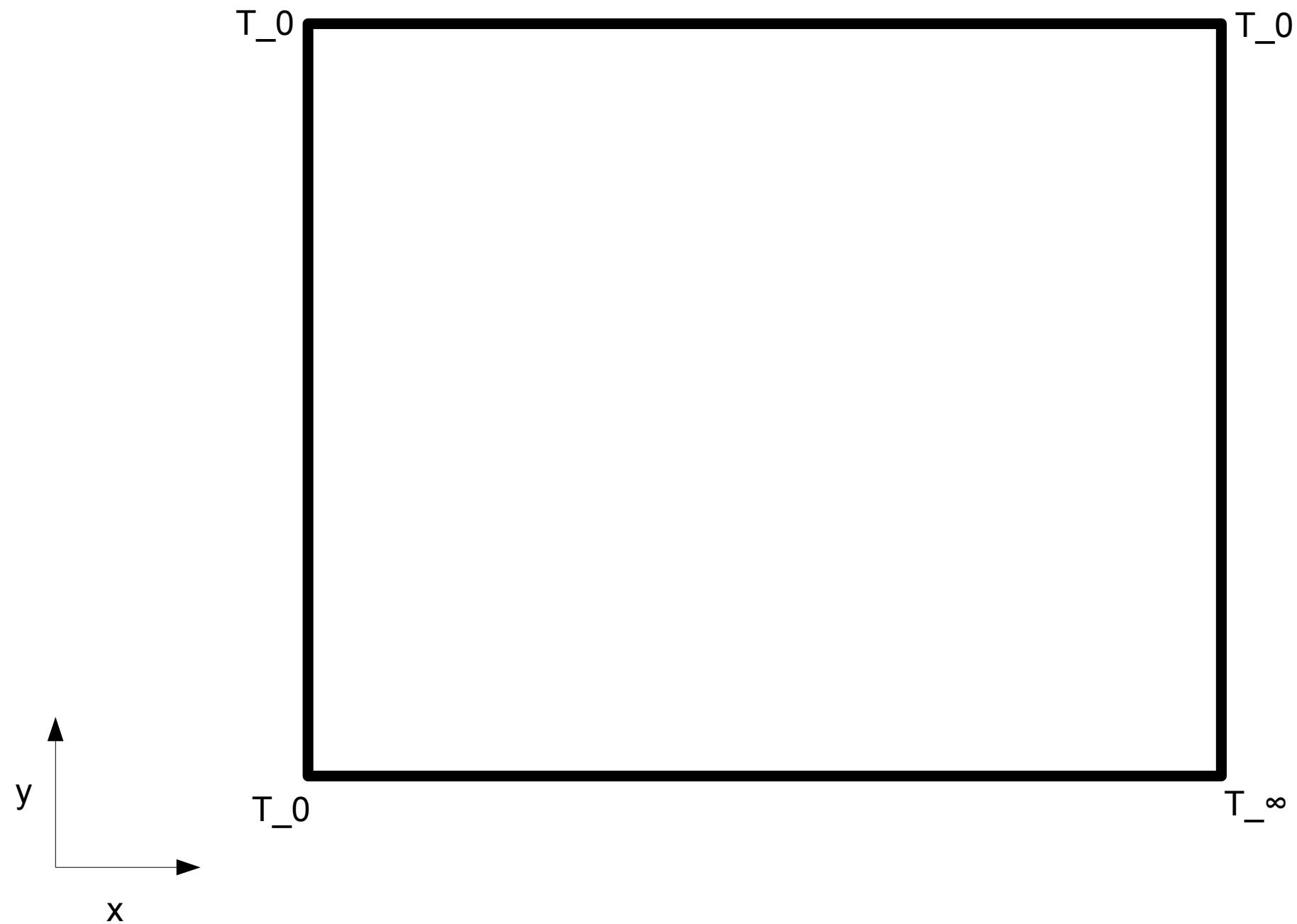


High Performance Scientific computing

Lecture 7

S. Gopalakrishnan

Steady State Heat Conduction



Steady State Heat Conduction

Phenomenon is modelled using Laplace's equation

$$\frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} = \nabla^2 T = 0$$

which can be discretised on a grid as,

