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**Title:**

Funnel control for the boundary-controlled heat equation

**Abstract:**

The aim of tracking control is the design of a closed-loop controller such that the output of the system (approximately) follows a given reference signal. For a certain class of systems governed by ordinary differential equations, the "funnel-controller" suitably fulfills this job. We will introduce this controller and show that it can as well be applied to a heat equation with Neumann boundary control and output formed by the spatial integral of the Dirichlet boundary. The aim of tracking control is the design of a closed-loop controller such that the output of the system (approximately) follows a given reference signal. For a certain class of systems governed by ordinary differential equations, the "funnel-controller" suitably fulfills this job. We will introduce this controller and show that it can as well be applied to a heat equation with Neumann boundary control and output formed by the spatial integral of the Dirichlet boundary.