

Stability of infinite-dimensional systems with integrable inputs: Lyapunov-based approach

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In this talk, we propose Lyapunov methodology for the investigation of input-to-state stability for infinite-dimensional control systems with integrable inputs. We use both coercive and non-coercive Lyapunov functions and show the applicability of the method to the analysis of semilinear parabolic PDEs with boundary controls.