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Math



연세대학교 수학기산학부

Lectures on nonlinear dispersive equations II. Group velocity, wave packets, and decay estimates

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Abstract : We introduce the notion of group velocity and wave packet, which would complete the last discussion on the behavior of the solutions to the linear dispersive equations. Equipped with the intuition for the linear systems, our next target is to quantitatively measure the behavior of the solutions: we prove simple decay estimates based on Lebesgue spaces and then establish Strichartz estimates, i.e., space-time estimates.

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