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Linear inviscid damping for monotonic shear flows under the two dimensional β -plane equation. (English) [Zbl 1463.35083](#)

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Summary: The linear asymptotic stability of a class of strictly monotonic shear flows was established under the two dimensional β -plane equation in an infinite periodic channel of period 2π , $\mathbb{T} \times \mathbb{R}$.

MSC:

[35B35](#) Stability in context of PDEs

[35B40](#) Asymptotic behavior of solutions to PDEs

[76E05](#) Parallel shear flows in hydrodynamic stability

[76E20](#) Stability and instability of geophysical and astrophysical flows

Keywords:

β -plane equation; linear asymptotic stability; inviscid damping

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