

Sur les stabilités localisées de type onde-courte de certains écoulements géophysiques / On the short-wavelength stabilities of some geophysical flows

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This talk is a survey of the short-wavelength stability method for rotating flows. This method is applied to the specific study of some exact geophysical flows. For Gerstner-like geophysical flows one can identify perturbations in certain directions as a source of instabilities with an exponentially growing amplitude, the growth rate of the instabilities depending on the steepness of the travelling wave profile. On the other hand, for certain physically realistic velocity profiles, steady flows moving only in the azimuthal direction, with no variation in this direction, are locally stable to the short-wavelength perturbations ...

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