

VORTEX EVOLUTION NEAR A SOLID
WALL UNDER THE INFLUENCE
OF A POTENTIAL WAVE

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S u m m a r y

The influence of potential oscillation modes on the motion of a point vortex near a solid wall is studied. The equations that describe the motion of a point vortex in the given field of a potential wave near the solid wall are derived. It is shown that the character of the vortex motion changes dramatically under the influence of a potential wave, and the possible modes of the vortex motion are analyzed.