

THE INVESTIGATION  
OF WAVES OF THE FOURTH  
SOUND IN A RELATIVISTIC SUPERFLUID  
DISSIPATIVE ONE-CONDENSATE SYSTEM

*S. I. Vilchynskyy*

Taras Shevchenko Kyiv National University  
(6, Academician Glushkov Prosp., Kyiv 03127, Ukraine)

S u m m a r y

The Lorentz-covariant equations describing the propagation of the fourth sound in a relativistic superfluid one-condensate dissipative system are deduced. The expressions for the velocity of the fourth sound are derived, and the character of oscillations in sound is determined.