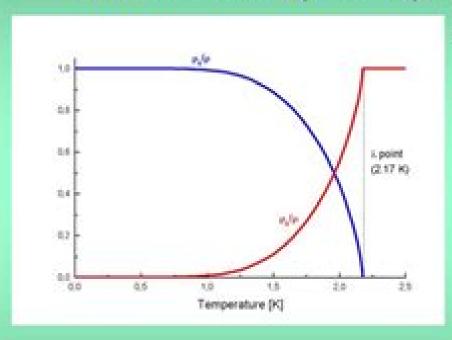
# Hydrodynamics of superfuid <sup>4</sup>He -He II

### Two-fluid model (Landau)



He II flow is well described only in a limit of low velocities

Thermal counterflow

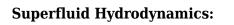
Second sound prediction - (entropy or temerature waves)

Very low kinematic viscosity of the normal fluid (above appr. 1 K)

Two-fluid model is also applicable to superfluid <sup>3</sup>He phases (talk of Matti Krusius)

## **Superfluid Hydrodynamics**

**Ying-Ying Zheng** 



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