

#### IV. LOW TEMPERATURE PHYSICS

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#### RESEARCH OBJECTIVES

This group is interested in those phenomena in liquids and solids which can be advantageously studied at very low temperatures. Some of these phenomena, principally the superfluidity of liquid helium and superconductors, are peculiar to the low-temperature domain. There are other phenomena, such as those involving transport properties, which are essentially temperature-dependent and whose behavior at low temperature is important. Current interests include relaxation processes in liquid helium, magnetic properties and relaxation processes in superconductors, the study of phase transitions and lambda points, and the improvement of techniques for attaining and using very low temperatures by adiabatic demagnetization.

A brief description of the work that is being carried out by each member of this group can be found in the Annual Research Report of the Laboratory of Chemical and Solid-State Physics, M.I.T., July 15, 1959.