

A Cryostat Suitable for Thermal Conductivity Measurements under High Pressure

Chomsin S. Widodo^a, Xun Xu^b, Muneaki Fujii^a, Yuji Kojima^c, and Kenji Hosoyama^c

^aDepartment of Physics, Kumamoto University, Kurokami 2-39-1, Kumamoto, Japan

^bDepartment of Electrical Engineering and Information Technology, Faculty of Engineering, Kyushu Sangyo University, Fukuoka, Japan

^cKEK, Tsukuba, Japan

A cryostat especially designed to be used for the measurements of thermal conductivity under high pressure has been constructed. Using this cryostat, the thermal conductivity measurements of laminated superconductors have been sufficiently performed under the pressure up to 10^9 Pa at liquid helium temperatures.