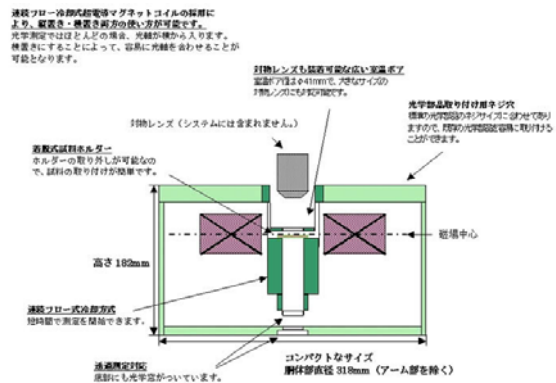


Development of Liquid Helium Cryostat with a Superconducting Magnet for Micro Photoluminescence Spectroscopy

Experimental studies of the exciton Aharonov-Bohm effect etc. require micro-photoluminescence measurements in a high magnetic field. Thus we developed a new cryostat with a superconducting magnet in collaboration with Oxford Inc. This new apparatus is compact and the distance between its top surface and sample holder is small so that the arrangement of optical components is easy and the price of the new apparatus is lower than previous ones. Its development was completed in early 2007 and has been commercially available from middle 2007.



(Left) photograph of the new cryostat for micro photoluminescence spectroscopy with a superconducting magnet , and (right) intersection of the magnet and sample holder.

http://www.oxford-instruments.jp/Sc/Microstat_MO.html