

Instrument Center

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Instrument Center was organized in April of 2007 by integrating the general-purpose facilities of research center for molecular-scale nanoscience and laser research center for molecular science. The mission of Instrument Center is to support the in-house and external researchers in the field of molecular science, who are conducting their researches using general-purpose instruments such as ESR, x-ray diffractometer, fluorescence spectrometer, *etc.* The staffs of Instrument Center maintain the best condition of the machines, and provide consultation for how to use them. The main instruments are NMR, mass spectrometer, powder x-ray diffractometer in Yamate campus and ESR, SQUID magnetometer, powder and single-crystal diffractometer, dilution refrigerator with superconducting magnet, fluorescence spectrophotometer, UV-VIS-

NIR spectrophotometer, circular dichroic spectrometer in Myodaiji campus. Instrument Center provides liquid nitrogen and liquid helium using helium liquefiers. The staffs of Instrument Center provide consultation for how to treat liquid helium, and provide various parts necessary for low-temperature experiments. Instrument Center supports also the network sharing system of the chemistry-oriented instruments, which starts in the April of 2007. From April to July of 2007, Instrument Center accepted 17 applications from 17 institutions outside of IMS. The users applied SQUID (9), ESR (8), x-ray diffractometer (4), mass spectrometer (3), NMR (2), and UV-VIS spectrometer (1), where the numbers in parenthesis shows the application number.

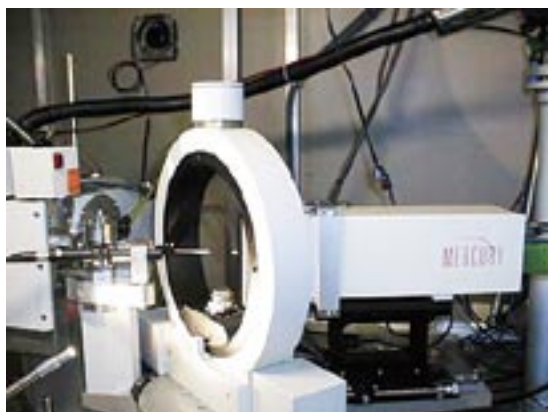


Figure 1. CCD X-ray diffractometer.



Figure 2. Fluorescence spectrophotometer.