

Joint research experiment at IMR

We performed a joint research experiment at the High Field Laboratory for Superconducting Material of the Institute for Materials Research, Tohoku University. We apply the polarizing microscope system developed in our laboratory to the cryogen-free superconducting magnet to achieve imaging in a high magnetic field of more than 20 T. The photo shows the superconducting magnet and the polarized light microscope system installed on the top. In this experiment, we succeeded in observation of the sample surface in a magnetic field of up to 19 T. We plan to apply it to the observation of the critical state of superconductors and the domain of magnetic materials, etc.

