

NEW WORLD RECORD

45.22 Tesla Steady State High Magnetic Field Generated on Science Island

The hybrid magnet of the Steady High Magnetic Field Facility (SHMFF) based at HFIPS produced a steady state field of 45.22 tesla, the highest steady state magnetic field by a working magnet in the world.

The new record holder is one of the ten magnets developed and operated by High Magnetic Field Laboratory of Chinese Academy of Sciences (CHMFL), one of the HFIPS institutes, who has set three world records with its resistive magnets.

User Facility Open to the World

SHMFF, a user facility, composed of one hybrid magnet, five resistive magnets, four superconducting magnets, which now provides scientists worldwide the strongest steady state magnetic field, has operated more than 500,000 machine hours since its operation, offering over 170 institutes or universities at home and abroad experimental conditions for cutting-edge research into multi-disciplines.

Milestones of SHMFF (2008-2022)

