Science Island Exp

The Science Island Express delivers the most recent happening at HFIPS.

NEW WORLD RECORD

45.22 Tesla Steady State 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 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 its operation, hours since offering 170 institutes over universities home and at abroad experimental conditions for cutting-edge research into multi-disciplines.

Milestones of SHMFF (2008-2022)

May 18, 2008

April, 2014

April, 2014

August, 2022

Groundbreaking

35 tesla steady state magnetic field by Resistive Magnet 5

10 tesla by large-scale superconducting magnet

45.22 tesla steady state magnetic field by hybrid magnet

NEW WORLD RECORD

September, 2013

June, 2016

November, 2016

27.5 tesla steady state magnetic field by Resistive Magnet 4

38.52 tesla steady state magnetic field by Resistive Magnet 1

40 tesla steady state magnetic field by hybrid magnet





