

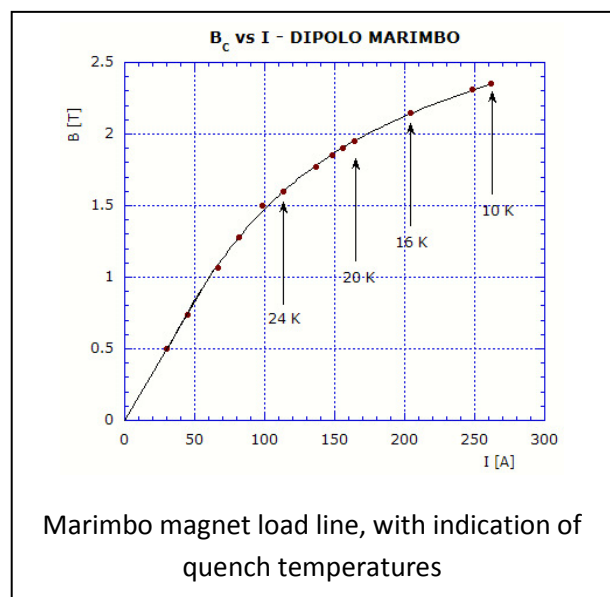
Press release

Columbus Superconductors S.p.A. reports successful test of a prototype superconducting dipole magnet using long MgB₂ superconductors by INFN-Genoa



Genoa, ITALY – March 18, 2008 – Columbus Superconductors has contributed to the INFN project named Marimbo, by supplying a km-class MgB₂ superconducting tape for the realization of a prototype superconducting dipole magnet. Recently, the dipole magnet design, realization and test have been successfully completed.

Marimbo is an INFN financially supported project, coordinated by Riccardo Musenich, and involving several entities in Italy. The project has recently reached its end, after successful completion of the planned activities. Magnet winding and testing have been realized by ASG Superconductors.



The dipole magnet has reached the target of generating a magnetic field in its center of at least 2 Tesla in cryogenic-free operation. At 16 K, a magnetic field in excess of 2.1 Tesla, corresponding to a critical current of about 200A has been achieved. Full results with pictures, magnet design and test are reported at the following link: <http://www.ge.infn.it/~musenich/marimbo.html>