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High Field Magnets for Neutron Scattering

Thursday, 17 October 2019 14:00 (30 minutes)

The National High Magnetic Field Laboratory has completed the highest field superconducting magnet worldwide, a 32 T system employing REBCO (Rare Earth Barium Copper Oxide) and traditional Nb₃Sn and NbTi. This magnet was the product of an 8-year development effort and will be used for condensed matter physics experiments in Tallahassee, FL. Since then the NHMFL has initiated the development of a 40 T superconducting magnet.

The latest developments worldwide in ultra-high field superconducting magnets are presented along with their implications for magnets for high field neutron scattering.

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Session Classification: Instruments