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Two-section HTS electromagnet in laboratory reaserch

Thanks to superconducting technology, even in small laboratories, there is possibility of using strong magnetic fields. Electromagnets made of HTS tape second generation give ability to work in temperature of liquid nitrogen. Technology of their construction however is complex. The most common construting method is to join parts of HTS electromagnet by resistive components. Losses of energy on this joints during work of electromagnets are huge. This method of construction is also very hard to do. In this work there is presented new technology of wiring HTS electromagnets and new cooling method improving work of electromagnets.

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