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Overview of the superconducting accelerator magnet system developments at the Karlsruhe Institute of Technology

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A key strategic approach to making accelerator-driven light sources more energy-efficient and sustainable is to employ superconductivity. At Karlsruhe Institute of Technology (KIT) there is a successful experience in developing and enhancing superconducting magnet systems for accelerators. That includes the design and fabrication of low and high-temperature superconducting technologies, high-field undulators with long/short periodic lengths as well as novel miniature high-strength magnets. This contribution gives an overview of the previous achievements and ongoing projects at KIT related to superconducting undulators and magnets.

Footnotes

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