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Development of superconducting insertion devices for FEL, 3rd generation light sources, and THz applications

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Superconducting insertion devices are now an established technology used in 3rd generation light sources. During the last years, progress has been achieved in making the devices “cryogen-free”, i.e. without liquid cooling, and in industrial production processes. Present developments aim at achieving even higher performance in magnetic field, homogeneity, repeatability and magnetic length, which is requested for the operation e.g. in FELs. Furthermore, applications in the generation of THz radiation become interesting. We will describe design, manufacturing as well as testing of the most recent insertion devices.

Footnotes

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Word

Region represented

Europe

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