

## Superconducting IDs at BINP

Superconducting wigglers are very popular devices for generation of synchrotron radiation (SR) in the hard X-ray spectral range. Moreover, recently superconductive wigglers have also been used for emittance reduction in a few projects of light sources and damping rings of linear colliders.

Budker Institute of Nuclear Physics (BINP) has great experience in the design and fabrication of superconducting wigglers. In the past thirty years, the Institute developed and fabricated more than twenty devices, which are now used at many SR centers over the world. A detailed analysis of this activity shows many interesting trends in the demand for superconductive IDs and their development in the past and at present and can be helpful in predicting the future tendency in this field.

This report reviews the BINP activity for developing and fabrication of superconductive IDs, tries to reveal the main trends, and presents some new ideas for future improvement of their design.

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