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Recent Activities of National Synchrotron Light Source-II Insertion Device Group

Wednesday 28 August 2024 17:45 (15 minutes)

Insertion Device (ID) Group at the National Synchrotron Light Source-II has been involved in the following activities: Installation and maintenance of the HEX-Superconducting Wiggler (SCW)[1], Development of SC 2T-three pole wiggler (3PW) for NEXT-III project, Laboratory Directed Research and Development (LDRD) for SC adaptive gap undulator (AGU)[2], NSLS-II Experimental Tools II (NEXT-II) project IDs [3]. Improvement of in-vacuum flip coil bench, development of in-vacuum pulsed wire bench and upgrade of regular flip coil bench. This paper describes the specifics of each activity.

References:

- [1] Tanabe, T., Hidas, D. A., Musardo, M., Rank, J., Corwin, T., Migliorino, D., Rank, J., Hidaka, Y., Todd, R., Seegitz, M., Breitenbach, M., Hobl, A. and Grau, "Development of the high energy engineering X-ray (HEX) superconducting wiggler, magnetic measurement, installation, and commissioning", Review of Scientific Instruments 94, (2023):. <https://doi.org/10.1063/5.0146964>
- [2] O Chubar, J Bengtsson, A Blednykh, C Kitegi, G Rakowsky, T Tanabe, J Clarke, "Segmented Adaptive-Gap In-Vacuum Undulators - Potential Solution for Beamlines Requiring High Hard X-Ray Flux and Brightness in Medium Energy Synchrotron. "Sources, J Phys.: Conf. Ser., 425, 032005 (2013). [102081]
- [3] <https://www.bnl.gov/nsls2/beamline-development.php>

I plan to submit also conference proceedings

Yes

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