

Status of 2 Tesla Superconducting Wiggler at CLSI

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Abstract

A 2 Tesla Superconducting Wiggler with a period length of 33 mm and 63 poles was designed and fabricated as an X-ray source for HXMA Beamline at the Canadian Light Source Inc.

With range of the critical energy $> 10\text{keV}$ and k-value ~ 6 Wiggler has the specific property. Using the random shimming the periodicity was destroyed to get a smooth and featureless spectrum. Cryogenic system of the Wiggler is capable to keep Helium consumption close to zero. In this contribution the operating and maintenance issues will be discussed.