



Contribution ID: 1325 Contribution code: THPS24

Type: **Poster Presentation**

Assembly process and inspection results for W100

Thursday, 23 May 2024 16:00 (2 hours)

The 100 mm periodic permanent magnet Wiggler (W100) was installed in the 31st straight section of the TPS storage ring in September 2020, during a prolonged shutdown of the TPS. It provides photon energy ranging from 5 to 50 keV for user experimental applications. The mechanical structure of this facility involves assembling and connecting it to the upper and lower magnetic arrays, each approximately 500 mm in length. Precise control of the gap between the magnetic arrays and accurate adjustments are required. This report primarily describes the assembly process of various components of W100 and the inspection items along with the results.

Footnotes

Funding Agency

Paper preparation format

Region represented

Asia

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Session Classification: Thursday Poster Session

Track Classification: MC7: Accelerator Technology and Sustainability: MC7.T15 Undulators and Wigglers