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Report on the hands-on training with the ELEGANT code at ISBA24

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The 7th International School on Beam dynamics and Accelerator technology (ISBA24) took place over nine days, from November 1 to 9, 2024 at Chiang Mai University in Thailand. The school, part of the KEK-IINAS-NX series, was jointly hosted by Chiang Mai University and the Synchrotron Light Research Institute (SLRI). Out of 115 applicants who had submitted resumes and recommendation letters, 64 students from nine countries (Thailand, China, Japan, Indonesia, Korea, Taiwan, India, Germany, and Turkey) were selected to participate the school. During the ISBA24 school period, we opened four hands-on trainings with ASTRA, ELEGANT, CST, and OPERA codes to deepen students' understanding of accelerator theory and improve their skills in accelerator design. All students chose one of the hands-on trainings according to their interests. In the ELEGANT hands-on training, approximately 20 students learned to use the ELEGANT code to design the various 4th generation synchrotron light sources with the Multi-Bend Achromat (MBA) magnet lattices. In this paper, we report details on the ELEGANT hands-on training conducted during ISBA24.

Footnotes

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