



Contribution ID: 1222

Type: Poster

AxeLatoon — Let's Build an Accelerator at School!

Friday, 8 July 2022 20:10 (20 minutes)

High Energy Accelerator Research Organization (KEK) launched an education project for the fabrication of an accelerator named “AxeLatoon” in 2020 together with the National Institute of Technology (KOSEN). This project aims to improve engineering skills of students and foster the next generation of accelerator researchers by providing hands-on training in the field of accelerator science.

In the first year, we collaborated with the NIT (KOSEN), Ibaraki College to build an accelerator. Students took the initiative in this extracurricular activity and challenged building an accelerator. From 2021, we expanded this project to other prefectures and four schools are now participating. The design and fabrication of a small cyclotron accelerator is currently underway.

Despite the restrictions on activities and the limited mobility of people due to the novel coronavirus pandemic, the project continues to educate students about basic technologies and accelerators. We are holding seminars a few times a month utilizing online communication tools.

In this poster, we would like to share the status of AxeLatoon's activities based on the actual production of students at KOSEN and deepen the discussion on accelerator outreach programs.

In-person participation

Yes

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Session Classification: Poster Session

Track Classification: Education and Outreach