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## SuperKEKB positron beam tuning using ML

*Tuesday 9 July 2024 09:40 (20 minutes)*

In the KEK Injector Linac, four-ring simultaneous injection has been achieved, and beam tuning is always performed in various beam modes. The beam tuning is complicated with many tuning knobs. We have developed an automatic tuning tool, which is realized by using Bayesian optimization and the downhill simplex method. It was especially useful in positron generation. I will report on the implementation of the automatic tuning and some test results.

### Apply for poster award

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**Session Classification:** Sources

**Track Classification:** Accelerator: Sources