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【204】 Collaborative project for the development of new simulation tools for the Future Circular Collider $e+e^-$

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The FCC-ee is one of the main candidates to succeed the HL-LHC at the forefront of particle physics and will require extensive simulation campaigns. A new collaborative project between EPFL and CERN aims to develop modern and maintainable simulation tools to address the key challenges of the FCC-ee. This talk presents an overview of the project as well as the first developments and results. This includes a new lattice management tool that has been developed to facilitate the manipulation of accelerator lattices and integrate conversions to different simulation codes. These developments have already sparked new efforts in FCC-ee studies in the field of collimation, tuning and spin dynamics.

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