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Recent Development of Cavity Simulator for ESS

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Polish Electronics Group (PEG) is one of the in-kind partners to the European Spallation Source (ESS) project. One of its tasks is testing the LLRF control systems before installation in the machine. To perform this task, the Cavity Simulator was developed. It simulates the behavior of an amplifier driving a superconducting cavity, both used in medium and high beta sections of ESS' linac. This device has proved its function while installing the medium beta cavities LLRF control systems, but the development process is still in progress. New functionality is still being added, extending the range of possible uses and applications.

This contribution describes the latest developments of the Cavity Simulator for ESS. The recent measurement results that present the device's performance are also shown together with the plans for the future.

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Footnotes

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