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Progress update on the superconducting undulator control system for the European XFEL

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This paper presents an update to the work previously published in [1]. Since the initial report, significant progress has been made within the European XFEL development program. The control rack for the first superconducting undulator (SCU) prototype, known as the S-PRESSO (S-PRE-SeriesS Prototype), has been produced and is currently undergoing commissioning at the European XFEL. In parallel, the commissioning of both main and auxiliary power supplies is in progress. Furthermore, the architecture of the global control system, which will integrate all components of the SCU, has been finalised. This paper provides an overview of the current status of the S-PRESSO control system and outlines the next steps toward full integration into the existing permanent-magnet undulator (PMU) system.

Footnotes

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