

Control System for a Dedicated Accelerator for SACLA Wide-Band Beam Line

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MOM305



ICALEPCS 2015

International Conference on Accelerator
& Large Experimental Physics
Control Systems

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Project goal: To increase the user experiment opportunity at SACLA, the XFEL facility in Japan.

Status

Solution: To reuse

SCSS prototype accelerator



May SCSS prototype

2013 accelerator shutdown

Sep. Beam commissioning

2015 start

Oct. First EUV-FEL

2015 observation

Mar. User experiment

2016 at BL1

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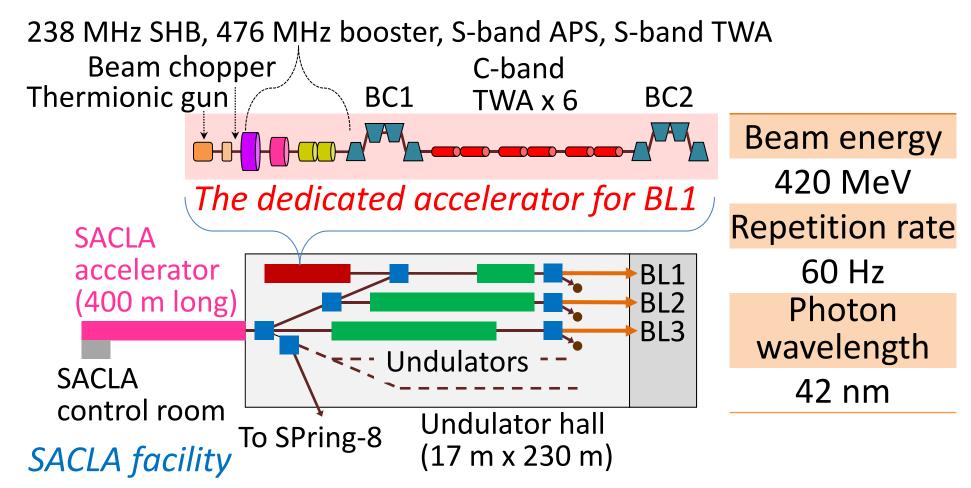


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MADO



Control system

The control system for the dedicated accelerator was constructed by reusing all software/hardware resources developed for SACLA.

MyCC, MySQL-based temporary data acquisition system compatible with MADOCA, was used at the RF conditioning. Then the system was smoothly transitioned to MADOCA.

The control system ensures the coordinated operation between the SACLA accelerator and the dedicated accelerator.