

Pulse Current Analysis at BESSY II

Monday 24 April 2023 14:30 (30 minutes)

At BESSY II fast pulsed magnets are used for injection and extraction processes. Originally, pulse current measurement systems for all pulsed elements were set up in the framework of BESSY II top-up operation to show that the required level of voltage stability was achieved. Now it is essential for stable user operation at high average injection efficiencies of about 98 %. A model based on a simplified replacement circuit diagram was applied. The implementation of this pulse current analysis program in the BESSY II control system now enables online data evaluation of physical parameters of pulsed elements as well as higher statistical quality of phenomenological quantities during continuous BESSY II user operation.

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Session Classification: Afternoon session