

## WAO'18: Workshop on Accelerator Operations



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## High Level Applications for Hefei Light Source

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This paper first discusses the hardware and software structure of the Hefei Light Source control system. Based upon the Hefei Light Source control system, we developed a number of high level applications for machine commissioning and operation. This dissertation reports some critical applications, including the energy matching between the injector and the storage ring, lattice calibration and optical parameter correction for the storage ring, lattice compensation for the insertion devices (IDs), and the storage ring orbit feedback.

**Primary authors:** XUAN, Ke (NSRL/USTC); Dr XU, Wei (NSRL/USTC)

**Presenter:** XUAN, Ke (NSRL/USTC)

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