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Performance of the iris diaphragm laser alignment system of the SPring-8

SPring-8 storage ring have critical alignment tolerances, especially for the magnets on common girders. We have been using the laser CCD-camera device for its alignment work. In renew this alignment device, we proposed an iris diaphragm laser alignment system, and illustrated at last workshop of IWAA2012. Recently, the development of this system was completed and performances of it were examined. The results show that the new system has reached the aim of our intention.

This paper illustrates the tests of the iris diaphragm system and the valuation of measurement accuracy.

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