

International Workshop on Accelerator Alignment



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Alignment and long term stability of the Duke Free Electron Laser Switchyard

In the fall of 2012, a major upgrade to the Duke Free Electron Laser (DFEL) Storage Ring was completed. This work was carried out by installing two additional helical undulators using a Wiggler Switchyard System. This mechanism utilizes a quick changeover between two planar OK-4 undulators and two new helical OK-5 undulators in the middle of the FEL straight section in a relatively short period of time. A preliminary result of installation and alignment of this system was reported at the IWAA2012. In this report, a full assessment of the alignment and the stability of the mechanism will be discussed in more details.

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