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Long-term performance of the extended pulsed optical timing system

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The optical timing system of the FERMI facility recently underwent a significant upgrade to accommodate requests for additional pulsed links for remote lasers or diagnostic stations. Following the successful completion of compliance tests, the long-term performance of the extended system was evaluated through out-of-loop measurements. In the setup each of the two pulsed subsystems, synchronized to the common optical master oscillator, feeds a stabilized fiber optic link. The relative stability between the outputs has been monitored at a remote location. The results achieved and the challenges encountered during the measurements will be discussed.

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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