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## **SP6: Femtosecond Level Laser-to-RF Synchronization Developments at REGAE**

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Mach-Zehnder Modulator based Laser-to-RF synchronization setup working at 800 nm wavelength has already shown excellent femtosecond level timing jitter and drift performance. Recently we evaluated the critical parts of the setup to further improve the timing jitter performance. This can be achieved by reducing the noise floor of the readout electronics and installing the well engineered 800 nm integrated MZMs. In this contribution we present the experimental results of these developments.

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