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Precise timing at very high fluences

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Future experiments at very high-energy and high-intensity collider machines foresee the necessity to have precise timing measurements, with a resolution of the order of tens of picoseconds, in environments where particle fluence is expected to be very high, exceeding $1\text{E}16 \text{ n}_{eq}/\text{cm}^2$.

An innovative design of silicon sensors able to withstand very high fluences while keeping excellent timing performances will be presented and discussed.

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