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Use of a diamond-detector and Wavecatcher for real-time monitoring of gamma beams

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We are developing a real-time monitoring system using a diamond-detector and a Wavecatcher to characterise the gamma source at ELI-NP, a new nuclear research facility in Romania. The main technological challenge is to obtain the necessary information from 32 consecutive pulses of gammas separated from one another by 16 ns. Two preliminary experiments have been performed at existing Compton Interaction Sources, Higs in the USA and newSubaru in Japan. This presentation covers the results obtained so far as well as the needs for the final design of our system.

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