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Bunch Shape at GSI ion LINAC using coherent transition radiation in the GHz range and comparison to FAST Faraday Cups

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Besides the classical Feschenko monitor also Fast Faraday Cups (FFC) and GHz Transition Radiation monitors (GTR) are able to measure the longitudinal bunch shape. While the Feschenko monitor observes an averaged bunch shape, both latter devices can measure the shape bunch by bunch within a bunch train. In this contribution we want to show the current research at GSI ion LINAC on FFCs and GTRs and highlight the advantages and disadvantages of both devices.

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