



Contribution ID: 51

Type: **not specified**

Bunch length monitoring using a spectrum analyzer

Monday 19 June 2023 17:00 (30 minutes)

A method to measure relative changes of the bunch length based on the spectrum of the induced voltage on a BPM button has been developed at ALBA. The bunch length has been calibrated using a Streak Camera for different filling patterns and beam currents. The idea is to have an alternative, redundant and readily available measurements of the bunch length during machine operation, avoiding the continuous use of the Streak Camera.

Summary

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Session Classification: Session 2