

IPAC 2018 Abstract

Nicolas Delerue

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Title Smith-Purcell Radiation using several gratings at CLIO**Submitted** (Europe/Paris)**Classification** 06 Beam Instrumentation, Controls, Feedback, and Operational Aspects**Modified****Presentation** Poster**Presenter** Nicolas Delerue**Paper ID****Author(s)** Nicolas Delerue, Stéphane Jenzer, Vitalii Khodnevych, Alexandre Migayron (LAL, Orsay), Jean-Paul Berthet, Nicolas Jestin, Jean-Michel Ortega, Rui Prazeres (CLIO/ELISE/LCP, Orsay)**Abstract** Coherent Smith Purcell radiation allows the measurement of a beam longitudinal profile through the study of the emission spectrum of the radiation emitted when a grating is brought close from the beam. In order to increase the dynamic range of our measurements we have used several gratings and we report on the measured bunch profile using this technique. We report on these measurements and on the background rejection used.*Word Count: 69 Character Count: 423***Footnote****Funding** Financially supported by the Université Paris-Sud (programme "attractivité"), by the**Agency** French ANR (contract ANR-12-JS05-0003-01) and by IN2P3.

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SPMS Author: Matthew Arena — Fermi National Accelerator Laboratory

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