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Recent Studies of Smith-Purcell Radiation as Longitudinal Bunch Profile Monitor

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We report on the recent studies of Smith-Purcell radiation aimed at developing a longitudinal bunch profile monitor. In particular we report on first measurements of the polarization and azimuthal distribution of the radiation. We also report on studies done in the linac of synchrotron SOLEIL to measure the distribution of Smith-Purcell radiation. Using these results we discuss the plan of building a single shot Smith-Purcell radiation monitor.

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