

IPAC 2018 Abstract

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ThomX project**Submitted** 15-NOV-17 22:21
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Feedback, and Operational Aspects**Modified****Presentation** Poster**Presenter** Nicolas Delerue**Paper ID****Author(s)** Nicolas Delerue, Vincent Chaumat, Ronic Chiche, Nouredine ElKamchi, Hugues Monard
(LAL, Orsay), Bruno Lucas (CNRS LPGP Univ Paris Sud, Orsay)**Abstract** The ThomX compact light source uses a 50 MeV ring to produce X-rays by Compton scattering. For historical reasons the linac and the ring could not operate at harmonic frequencies of each other. A heterodyne synchronization system has been designed for this accelerator. This synchronization is based on mixing the two RF frequencies to produce an heterodyne trigger signal and that is then distributed to the users. Bench tests of the system has demonstrated a jitter of less than 2 ps. We describe here this synchronization system.*Word Count: 87 Character Count: 526***Footnote****Funding** CNRS and ANR
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