

High-frequency, real-time synchrotron beam stabilization at the nm scale using in-line SiC sensor

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Amphithéâtre SOLEIL

In this seminar we will present the results obtained during a beamtime at the GALAXIES beamline, conducted to test and validate a novel beamline control system currently under a joined collaboration by STLab srl and SenSiC GmbH. The system, using thin Silicon Carbide in-line sensors [1], is conceived to actively stabilize both the vertical and horizontal beam position through real-time, high-frequency acquisitions and feedback.

The presentation will discuss the experimental results and outline the next steps toward developing smarter and more efficient control solutions for next-generation synchrotron beamlines.

[1] <https://dx.doi.org/10.2139/ssrn.5347246>



Pause café

SEMINAIRE

Formalités d'entrée : accès libre dans l'amphi du pavillon d'Accueil.

Si la manifestation a lieu dans le Grand Amphi SOLEIL du Bâtiment Central merci de vous munir d'une pièce d'identité (à échanger à l'accueil contre un badge d'accès).

SYNCHROTRON SOLEIL

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