

# 第7回 NanoTerasuセンター セミナー

**タイトル** Lessons we learned at operations of SACLA

**講師** 田中 均 氏  
理化学研究所 放射光科学研究センター 副センター長

**開催日時** 2026年10月29日(木) 15:00-17:00

**開催場所** オンサイト：NanoTerasu見学ホール  
Teams会議 :ID 413 649 765 374 072  
パスコード yf3Lq6bv

## 概要

The Compact X-ray Free-Electron Laser (SACLA) initially faced severe criticism that it would be unable to achieve effective laser amplification. However, SACLA smoothly achieved laser amplification after its construction and has become one of the world's most widely used FEL facilities, capable of conducting independent experiments simultaneously with its three FEL beamlines.

In this seminar, the lecturer will present the design concept of SACLA, the challenges encountered when enhancing laser performance, how these were overcome, and the large-scale “green” upgrade project. The presentation will provide valuable information and practical insights to aid the development of a concept for the SX-FEL facility, which will use 3 GeV linear accelerator at NanoTerasu on a time-sharing basis.



<https://www.qst.go.jp/site/nt-center/>

