



## **ILANCE Internships    Spring / Summer 2025**

University of Tokyo

<https://ilance.cnrs.fr/>

**The Franco-Japanese laboratory, dedicated to the physics of the two infinities, benefits from an exceptional scientific and cultural environment.**

An on-site laboratory in Japan, ILANCE brings together researchers, students, post-docs, engineers and technicians from CNRS and Japanese institutions. The laboratory is made up of French scientists for long-term stays in Japan and Japanese physicists. Individual research grants are awarded for postdoctoral stays or doctoral thesis. The laboratory will also aim to welcome and support French scientists for temporary stays in Japan. Based on the Kashiwa campus in the northeast of the city of Tokyo, the ILANCE laboratory permanently hosts scientists from CNRS laboratories and from four departments of the University of Tokyo namely, ICRR, Kavli IPMU, ICEPP and the School of Science.

### **Uncovering new radio-loud active galactic nuclei**

A fraction of growing supermassive black holes are known to be luminous in radio wavelengths, which are referred to as radio-loud active galactic nuclei (AGNs). These radio-loud AGNs are expected to play important roles in the formation of massive galaxies by controlling the growth of galaxies via negative feedback from AGNs. In this topic, we will search for new radio-loud AGNs by combining large datasets in the optical (from Subaru HSC SSP) and radio (from JVLA, etc.) wavelengths, and the physical properties of these galaxies will be investigated via spectral energy distribution modeling.

**Michel Gonin** [michel.gonin@polytechnique.edu](mailto:michel.gonin@polytechnique.edu)

**ILANCE Director**

[https://fr.wikipedia.org/wiki/Michel\\_Gonin](https://fr.wikipedia.org/wiki/Michel_Gonin)