



Title: Introduction to formalization of mathematics in Lean

Speaker: Yoh Tanimoto

Period: 10 December 2025 - January 2026 (the last class to be determined)

Schedule: Wednesday and Thursday Morning 9:30-11.30

Room: 1201 – “R. dal Passo”

ABSTRACT

In principle, a mathematical proof should be a logical sequence of claims that uses only the axioms and follows the inference rules. In the last few years, this idea has been realized concretely, to the extent that one can write some recent research results in a programming language, in particular in Lean. In this course, one learns the basics of the formal language Lean, of its library mathlib and of how to write advanced mathematics in Lean.