
BERN-FRIBOURG GRADUATE SEMINAR

a seminar for Master and PhD students

Thursday 12th December, 2024: 17:15 - 18:00

Room B5, Exakte Wissenschaften, Bern

NIELS VOOIJS

University of Bern

Computability Theory and the Fundamental Difference between Arithmetic and Math.

Abstract

In this talk I will give a short introduction to computability theory. In particular, we will see that mathematics is undecidable, hence "more difficult" than arithmetic. We'll move on to the theory of computable functionals, strengthening our previous statement. Finally, we'll study the existence of fixed points for computable functionals, and underline their importance within and outside of computability theory.