

Sophia University

Mathematics Colloquium

When: Friday, April 28, 2017, 17:30-18:30

Where: Room No. 201, Main Bldg., Ichigaya-Campus

Speaker: Prof. Laurent Demonet
Nagoya University

Title: Cluster algebras and their applications

Abstract: Cluster algebras have been introduced around 2000 to understand certain basis of certain Lie groups. Since then, important developments have been blooming, leading to unexpected applications on the one hand, and to new methods in representation theory on the other hand.

We will give an elementary introduction to cluster algebras and give a certain number of elementary applications like Conway-Coxeter friezes. If time permits, we will move toward more advanced applications as so-called dilogarithm identities.