

Lecture Series “*Frontiers in Science*”

Dr. Michael PEVZNER

Université de Reims Champagne-Ardenne, FRANCE

Title: Symmetry Breaking in Representation Theory

Date & Time : December 8, 15:00~16:30
December 9, 10:45~12:15
December 10, 13:15~14:45

Venue : Sci. Bldg. E408 (Sugimoto C.)



Abstract : The main goal of this lecture series is to present recent advances in analytic representation theory, with a particular focus on branching problems for reductive Lie groups and on symmetry breaking phenomena in infinite-dimensional settings.

After introducing the basic notions through illustrative examples, we will explain why branching laws play a central role and how they can be analyzed via symmetry breaking operators. In the latter part of the series, we will examine a fundamental example of nontrivial symmetry breaking operators arising from the Rankin-Cohen brackets, and outline a method for generalizing them within a broader geometric framework.



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