



Frontiers of Mathematics Lecture

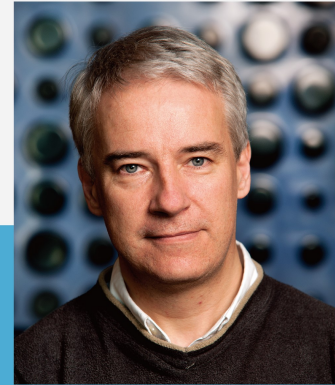
Hecke algebras, residues and spectral decomposition

Abstract

Affine and graded affine Hecke algebras are ubiquitous in representation theory, integrable models, special functions and automorphic forms. We will discuss some elegant aspects of their representation theory and spectral theory, and consider some remarkable applications of these results in the subjects mentioned above.

Biography

Eric Marcus Opdam (University of Amsterdam) specializes in representation theory and harmonic analysis. He is one of the two namesakes of Heckman–Opdam polynomials. He has worked on integrable models and the related special functions and algebras. In particular he studied Macdonald polynomials, Cherednik algebras and Dunkl operators. More recently he works on harmonic analysis, unipotent representations of reductive groups of p -adic type, and on certain automorphic representations. In 2006 he was an invited speaker at International Congress of Mathematicians in Madrid. He was elected a member of the Royal Netherlands Academy of Arts and Sciences in 2012. In 2010 he received an Advanced Grant from the European Research Council (ERC).



Professor Dr. Eric Opdam
University of Amsterdam

Date :
June 26, 2024 (Wednesday)

Time :
4:30 – 5:30pm
(Tea Reception starts at 4:00 pm)

Venue :
Lecture Theatre C, LG1/F,
Chow Yei Ching Building,
The University of Hong Kong