

Algèbres non commutatives, théorie des représentations et fonctions
spéciales
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Non-commutative algebras, representation theory and special functions
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Jasper V. Stokman
(Korteweg-de Vries Institute for Mathematics)

n-point spherical functions and their applications

n-point spherical functions form a special class of vector-valued spherical functions on real reductive Lie groups. They were introduced by the speaker and N. Reshetikhin a couple of years ago, in our (continuing) attempt to obtain a better understanding of n-point correlation functions in WZWN boundary conformal field theories.

In this minicourse I will give an introduction to the theory of n-point spherical functions and explain some of its applications to (multivariate) special functions, integrable systems and quantum topology.