

MULTIPLE ZETA VALUES SEMINAR

Miércoles, 1 de octubre de 2014

15:00 h., Aula Gris 2 (ICMat, Campus de Cantoblanco)

Wadim Zudilin

University of Newcastle

Radial asymptotics of (multiple) q -zeta values and independence questions

Resumen:

Multiple zeta values (MZVs) possess a rich algebraic structure of algebraic relations, which is conjecturally determined by two different (shuffle and harmonic) products of a certain algebra of noncommutative words. In a recent work, Bachmann constructed a q -analogue of the MZVs — the so-called bi-brackets — for which the two products are dual to each other, in a very natural way.

In my talk I will discuss the asymptotics of Bachmann's bi-brackets at roots of unity, its links to MZVs, and related linear (in)dependence questions of the q -analogue.