SFB Colloquium

TIME:
12 Jul 2011, 17:00 - 19:00

LOCATION:
Konrad-Zuse-Zentrum für Informationstechnik Berlin
Takustrasse 7
14195 Berlin-Dahlem

PROGRAM:

17:00 - 17:30   COFFEE BREAK

17:30 - 18:30   **Karen Yeats**

Identities of Feynman graph denominators

If one takes a Feynman integral in parametric form and integrates
one edge variable at a time, then the denominators at each stage
have nice combinatorial interpretations. From these interpretations
we can use graph theoretic tools to derive interesting relations
between denominators, which have implications for the values of the
Feynman integrals. I will explain the setup and show some of these
identities and their implications. This material is fun and interesting
for combinatorialists and physicists, and has ties to number theory,
and perhaps to knot theory.

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