



Andras Szenes

"Toric reduction and tropical geometry"

TIME:

13 Dec 2005, 14:00 - 16:00

LOCATION:

FU-Berlin, Institut für Mathematik
Arnimallee 6, Rm 025/026

I will report on joint work with Michele Vergne on a conjecture of Batyrev and Materov. The conjecture relates generating series of intersection numbers on certain families of toric varieties to Cox's toric residues on a polar dual toric variety. We show that the conjecture follows from a new residue formula for the cohomology of toric reduced spaces. To prove this residue formula then, we use methods of tropical geometry.

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