Seminar on Combinatorial Computing
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Room 8405, Graduate Center
365 Fifth Avenue, New York

Invariants of ribbon tiles

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Abstract

Tile invariants are linear relations between numbers of each type of tiles not depending on the chosen tiling, but only on the tiled region. In this talk I will present Thurston's algorithm for testing tileability by dominoes, and then use the similar approach to compute all tile invariants of the ribbon tiles. In a special case of trominoes we obtain the Conway-Lagarias invariant.

Much of the talk requires no background and will be accessible to all graduate students.

For further information contact Janos Pach at pach@cims.nyu.edu, or visit our website: http://www.math.nyu.edu/ pach/combinatorics_seminar.html