Haverford College

Bi-Co Mathematics Colloquium: "Computing without subtracting (and/or dividing)"

March 30,2015 4:30PM–6:00PM

KINSC Hilles 109

Distinguished Visitor Sergey Fomin, Robert M. Thrall Collegiate Professor, Department of Mathematics, University of Michigan

Description

Algebraic complexity of a function can be defined as the minimal number of arithmetic operations required to compute it. Suppose that some of the four basic operations (say, subtraction and/or division) have been disallowed---can this restriction dramatically change the complexity of a given function? Some versions of this algorithmic problem are easy, but some are surprisingly hard. Their solutions rely on insights coming from different areas of mathematics: algebra, analysis, combinatorics. The talk is based on joint work with D. Grigoriev (Bonn) and G. Koshevoy (Moscow).

Tea at 4:15PM

Sponsored by the Department of Mathematics & Statistics in conjunction with the Distinguished Visitors Program

For More Info

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