Computing without subtracting (and/or dividing)

Sergey Fomin
(University of Michigan)

Abstract: Algebraic complexity of a rational function can be defined as the minimal number of arithmetic operations required to compute it. Can restricting the set of allowed arithmetic operations dramatically increase the complexity of a given function (assuming it is still computable in the restricted model)? In particular, what can happen if we disallow subtraction and/or division?

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4:30 PM
Room E17-122