

# **APPLIED MATHEMATICS COLLOQUIUM**

## **COMPUTING WITHOUT SUBTRACTING (AND/OR DIVIDING)**

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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?

**Monday May 11, 2015  
4:30 PM  
Room E17-122**

Applied Math Colloquium: <http://www-math.mit.edu/amc/spring15/>  
Math Department: <http://www-math.mit.edu>

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