

ALGEBRA  
SEMINAR

*Jacobians of Graphs and Arithmetical Structures*

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**Abstract:** In analogy to the Jacobian variety associated to a curve, one can define a finite abelian group associated to a graph which we also call the Jacobian of the graph. Several theorems in algebraic geometry translate nicely to the graph theory setting while others do not. In this talk, we will look at this definition and consider further generalizations that were originally motivated by arithmetic geometry but which turn out to have a definition in terms of elementary number theory as well as a number of interesting combinatorial properties.

Tuesday, April 2, 2019, 4:00 pm  
Mathematics and Science Center: W201

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