

# ALGEBRA SEMINAR

## *Jordan families*

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ABSTRACT: Jordan families are novel algebraic objects that appeared, for no reason at all, in a problem that had no apparent algebraic structure. Jordan families are special Jordan algebras (google them) that are closed with respect to an infinite family of multiplications. In situations that I will describe, each Jordan family corresponds to a physically meaningful theorem. Also, algebraically natural constructs such as ideals, factor-algebras and homomorphisms have physically meaningful counterparts.

I will describe a specific example, where the complete characterization of all Jordan families and their ideals is unknown. I will then plead for help.

Monday, November 26, 2007, 1:40 – 2:30 pm,  
Wachman 617