

MATHEMATICS DEPARTMENT  
North Carolina State University

ALGEBRA SEMINAR

Monday, March 10, 2008

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Addition theorems via continued fractions

**ABSTRACT:** We show connections between a special type of addition formulas, a theorem of Stieltjes and Rogers. We use different techniques to derive the desirable addition formulas. We apply our approach to derive special addition theorems for Bessel functions and confluent hypergeometric functions. We also derive several additions theorems for basic hypergeometric functions. Applications to the evaluation of Hankel determinants are also given. This talk is based on a joint work with Mourad Ismail.

4:00 - 4:50 pm    HA 330

Faculty, students and post-docs are encouraged to attend.

Please note the change in day and room.