Computer Algebra Seminar Talk

Date: Wednesday March 18, 2016
Time: 11:30 – 12:30 pm
Location: MC Room 204

Creative Telescoping: Theory and Algorithms

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Abstract: The method of creative telescoping is the core of Wilf--Zeilberger's theory for computer-generated proofs of identities in combinatorics and special functions. The key concept in this method is TELESCOPER, which is a linear differential or recurrence operator. For a specific function, when does a telescoper of certain type exist? And how can one construct telescopers? These are two basic problems related to the method of creative telescoping. In this talk, I will given a survey on recent work on these two problems.