



2009/2010 Seminar Series

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Deep Proofs are
Long: Introducing
Merge Depth of
Resolution Proofs

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I introduce the concept of *merge depth* in three different ways, and give exact exponential upper and lower bounds on the size of the smallest tree-like resolution proofs given the merge depth of the set of unsatisfiable clauses. Using extended resolution, there are always proofs of merge depth 1 or zero.

Wednesday September 23rd, 2009 @ 3:30pm
Information Technology Center, C-317