# MSc thesis defense presentation

## Ioannis Kokkinis defends his MSc thesis

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| **Date:** | Monday, 06 Apr 2015 |
| **Time:** | 09:30-10:30 |
| **Location:** | Univeristy of Athens, Department of Mathematics, University of Athens, room A11 |
| **Thesis title:** | Annotated Sequent Systems for Linear Temporal Logic |
| **Committee:** | • Nikolaos S. Papaspyrou<br>• Panagiotis Rondogiannis<br>• Efstathios Zachos |

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## Thesis abstract

Annotated sequents provide an elegant approach for the design of deductive systems for temporal logics. Their proof theory, however, is notoriously dif- ficult. Until recently it was not even clear how to syntactically show the admissibility of weakening. In this thesis we present a cut-free, finitary se- quent system for linear temporal logic, based on annotated sequents. We present proofs for soundness and completeness and also present a purely syntactical proof for the admissibility of weakening in the aforementioned system. Furthermore, we investigate the role of cut in annotated sequent systems.