

# Definite clauses applied to security

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**Timetable:** 12 hrs. Lectures on June-July 2013, Torre Archimede, Room 2BC/30 (dates in the calendar **to be confirmed**).

**Course requirements:** some logic

**Examination and grading:** oral examination

**SSD:** MAT and INF/01 (Computer Science)

**Aim:** Show that definite clauses are a powerful tool for modelling communication protocols at different levels of complexity (with and without a notion of state)

**Course contents:**

Preliminaries: definite clauses, unification and resolution, clauses for modelling communication protocols. Proverif study and use in laboratory. Limits of Proverif and a way to overcome them. Definite clauses used for modelling state sensitive protocols.