

## SEMINAIRE MATHÉMATIQUES ET SOCIÉTÉ

Mercredi 7 mai 2014, à 16h15

**Auditoire Louis-Guillaume,  
ALG, F200**

**Conférencière : Laura Ciobanu**  
Université de Neuchâtel

« *Languages and Mathematics* »

Abstract : Linguists have always tried to understand the principles from which human speech and language take shape and develop. One of the most successful attempts is due to Chomski, who, while investigating how and whether mathematically defined formal languages are capable of capturing key properties of human language, defined a hierarchy of formal languages and grammars that has proved valuable to mathematics, computer science and linguistics.

This talk will explain what constitutes the Chomsky hierarchy of formal languages and show some of its applications to mathematics and computer science.

**Organisation :** Paul Jolissaint  
Institut de Mathématiques  
Emile-Argand 11  
CH – 2000 Neuchâtel