

## SEMINARIO MATEMATICA

Mercoledì 12 febbraio 2014  
ore 16:00

Scuola Normale Superiore  
Pisa  
Aula Mancini

**Lars Khuene**  
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Terrà un seminario dal titolo:

### **“A survey on the abc-conjecture”**

**Abstract:**

*I will give a survey on the abc-conjecture. This conjecture can be stated in an elementary way as a condition on triples  $(a,b,c)$  of coprime integers satisfying the linear relation  $a+b=c$ . (You may easily find the precise statement by using your favorite search engine.) Despite its elementary form, the abc-conjecture yields substantial information on how addition and multiplication of integers are interrelated. It is also deeply connected to a variety of (still) evolving topics, among which are Vojta's conjectures, linear forms in logarithms, Buium's arithmetic differential equations and geometry over the so-called field of one element. In addition, an intricate proof of the abc-conjecture has been recently announced by Shinichi Mochizuki but I will not dwell on his many intricate new ideas. Instead, I will introduce the abc-conjecture, give some of its (historic) motivation and focus on related elementary diophantine problems (around Wieferich primes) that show how few we know about integers.*

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze