

Scuola Normale Superiore
Piazza dei Cavalieri, 7
Pisa

Martedì 23 aprile 2013
Aula Mancini
Palazzo della Carovana
ore 16,00

Colloquio De Giorgi

LUC ILLUSIE

Université Paris-Sud

*Grothendieck at Pisa :
crystals and Barsotti-Tate groups*

Abstract

It's during a visit to Pisa in May 1966 that Grothendieck wrote his famous letter to Tate, in which he defined crystals. A few years later, it's also in Pisa that he wrote me two letters in which he outlined a general theory of deformation for p -divisible groups, which he renamed Barsotti-Tate groups. These letters were to have a deep and lasting impact on the development of p -adic cohomology theories. I will discuss their contents, and sketch some results echoing them today.

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