

# FIM

# Minicourse

**Yuri Berest** (Cornell University)

## Topics in Noncommutative Geometry

**October 11 - November 9, 2012**

ETH Zürich, Rämistrasse 101

Thursday, October 11, 15.15-16.15 at HG G 43

Thursday, October, 25, 15.15-16.15 at HG G 43

Thursday, November 1, 15.15-16.15 at HG G 43

Thursday, November, 8, 15.15-16.15 at HG G 43

Friday, November, 9, 09.15-10.15 at HG G 19.1

### Abstract

In these lectures, we will discuss a variety of topics from algebraic geometry, noncommutative algebra and representation theory that usually go under the name of noncommutative geometry. Our aim is to give an overview of several popular approaches to noncommutative geometry and look at some interesting applications (mostly, in mathematical physics). Although the level of the lectures will be uneven (some topics will be covered in more detail while others will be touched upon only briefly), an effort will be made to make the discussion accessible for graduate students.

For a detailed syllabus see [www.fim.math.ethz.ch/lectures/minicourses](http://www.fim.math.ethz.ch/lectures/minicourses)

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[www.fim.math.ethz.ch/lectures](http://www.fim.math.ethz.ch/lectures)

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