

LTCC Proposed Course

Title: Examples of Moduli Spaces in Algebraic Geometry

Basic Details:

- Core Audience (1styr or 2nd/3rdyr: pure, app. or stats): 1st year (?)
- Course Format (**Extended**: 5 x 2hr lectures or **Intensive**: 2 x 4hr lectures over 2 consecutive days): Extended

Course Description:

- Keywords: Moduli, algebraic surfaces, algebraic groups
- Syllabus: The aim of this course is to expose students to algebraic geometry by means of examples of moduli spaces of surfaces, starting with cubic surfaces, and showing the links with the geometry of algebraic groups.

- Recommended reading: Hartshorne, Algebraic Geometry, ch. 1
- Additional Optional reading:
- Prerequisites: A willingness to learn, especially from each other.

Format:

- No of discussion/problem sheets (typically 4 for extended courses, and 1 for intensive courses, with solutions):
- Electronic lecture notes (these are strongly encouraged, as they will form the core of the individual study of the students):
- Necessary support facilities
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- Necessary software requirements for computing facilities.
- Proposed timing:
- Lecture/computer session/tutorial/discussion split (hours of each):

Lecturer Details:

- Lecturer: Nick Shepherd-Barron
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