

MA4492: Projects

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Requirements

Module description <http://www.maths.tcd.ie/undergraduate/modules1718/MA4492.php>

- 1 Write up of what you have done
- 2 Poster
- 3 (Informal) oral presentation

Dates: write up due March 16th
(Prefer: pdf by email plus one spiral bound copy)

Write up

- Should be in the style of a scientific article (mathematical, perhaps expository)
- So should have title, your name as the author, chapters or sections of content and a bibliography.
- What have you done? Explain it as well as you can!
Probably start with an overall summary (perhaps an abstract first) then some background.
- We expect an amount of effort and sophistication equivalent to a full year $5 + 5 = 10$ credit module Does your write-up show that?
- Don't transcribe stuff. If you find a perfect explanation of something, probably best to refer to it (if it is long anyway) — but it is no problem to reproduce an explanation in the literature with your own slant or more explanations of the steps.

Write up

- Plagiarism is *a serious offence*. Say where you are taking stuff from. Cite your bibliography precisely. Your bibliography should be in the style of typical journal articles.
- Will we know you have understood what you did?

Resources

- Main library (use online catalogue)
- Maths research library (ask me if you need to access or borrow). Online catalogue
<https://www.maths.tcd.ie/local/library/> (maths home page → local access → library)
- Online resources:
 - MathScinet (database, Main library subscription, off campus access via Main Library catalogue)
 - ArXiv preprint server (more or less universal for TP stuff, quite extensive in many areas of pure mathematics for recent material) <http://front.math.ucdavis.edu/> or <https://arxiv.org/>
 - <http://inspirehep.net/> for TP
 - Wikipedia — use with care and verify

Make notes of where you are finding things

How to prepare your write up

- \LaTeX is probably best for mathematical stuff, but it is a bit of a hurdle. Steps:
 - Create valid source file — say *JohnsProject.tex* using a simple editor
 - save and run *latex JohnsProject*
 - run *xdvi JohnsProject* to view output on screen
 - go back to add to *JohnsProject.tex*
 - note that *pdflatex JohnsProject* produces *JohnsProject.pdf*
- texworks is a reasonably simple wrapper that does this (based on the TeX Live distribution)
Online sites allowing you to prepare \LaTeX documents may also be workable.
- Word might do if your project has not got many formulae.

How to prepare your poster

- Last few years I think most used LaTeX
- pdf to Emma, we got printed (once)

Posters session: (probably) Thursday April 5th, 2018.

October 19, 2017