SCHOOL OF MATHEMATICS AND PHYSICS

4ᵀᴴ YEAR HONOURS RESEARCH PROJECT TOPIC SELECTION FORM FOR 2024

Please upload this form with your online application (https://apply.uq.edu.au) or email it to smp.student@uq.edu.au. The information supplied on this form is for School administrative use only and **does not replace** the University enrolment procedures.

You will also need to complete a UQ online application, found here: https://apply.uq.edu.au. **Once your application is approved, you will need to accept your offer via the online system and then enrol in your courses via mySI-net.**

Project suggestions are available at: https://smp.uq.edu.au/research/projects and the Research pages on the School website. Students interested in projects or course areas should consult with the relevant academic. Students with their own ideas for a project should consult with a potential supervisor in a similar area. If you are uncertain of your project areas, please consult with the Honours Coordinator.

HONOURS 2024

Name: Declan Fletcher   **Student No:** 46982494

Which Semester are you applying to commence in? (**Semester 1**) / **Semester 2**   (please circle)

Are you an international student?   YES / (**NO**) (please circle)

Signature: _____   **Date:** 16/01/2024

Field of Study (Mathematics/Physics/Statistics):   Mathematics

Project Title/Area: Root Systems and Hyperplane Arrangements

Courses you plan to take as part of your honours program*:

If you wish to study MATH6006/MATH6007/PHYS6004 Special Topics, you must include the title of your project/course (in the course list below) and obtain the signature of your special topics supervisor (see over page)†.

Part A and Part B of the Honours Research Project must be completed in consecutive semesters unless approval is obtained from the Associate Dean (Academic) of the Faculty.

Semester/Year	Course code	Course title
Examples:		
Sem 1/2022	*MATH4105*	*General Relativity*
Sem 1/2022	*MATH6010/PHYS6487*	*Honours Project (Part A)*
Sem 2/2022	*MATH6010/PHYS6487*	*Honours Project (Part B)*
Sem 1/2024	MATH4408	Measure Theory
Sem 1/2024	STAT4406	Advanced Probability & Stochastic Processes
Sem 1/2024	MATH6006	Special Topics I (Riemannian Geometry)
Sem 1/2024	MATH6100	Honours Project (Part A)
Sem 2/2024	MATH4108	Topics in Mathematical Physics

| Sem 2/2024 | MATH4407 | Advanced Ordinary and Partial Differential Equations |
| Sem 2/2024 | MATH6100 | Honours Project (Part B) |

Name of Proposed Supervisor

Masoud Kamgarpour

Signature of Proposed Supervisor

Confirmation given by email

Signature of <u>Mathematics</u> Honours Coordinator
Priestley Building (67),Room 645
<mark>Email</mark>: alan.huang@uq.edu.au
              or
Signature of <u>Physics</u> Honours Coordinator
Physics Annexe (6),Room 428
<mark>Email</mark>: m.wegener@uq.edu.au

† **Name of MATH6006/MATH6007/PHYS6004 Special Topics Supervisor** *(if required)*

Ramiro Lafuente

† **Signature of MATH6006/MATH6007/PHYS6004 Special Topics Supervisor** *(if required)*

† *If you wish to study MATH6006/MATH6007/PHYS6004 Special Topics, the signature of your special topics supervisor is required.*

Once the signatures above are obtained, please upload the completed form with your online application (https://apply.uq.edu.au) or email this form to: smp.student@uq.edu.au

OFFICE USE ONLY

OFFICE USE ONLY
Student Number   ☐☐☐☐☐☐☐☐   Application Number   ☐☐☐☐☐☐☐

Signature of Head of Mathematics
Email: j.rasmussen@uq.edu.au

Signature of Head of Physics
Email: corney@physics.uq.edu.au

3rd level GPA:

Signature of Head of School: **Date:**