

## Assignment 2: Final Project

Due: 23.59, Dec 5<sup>th</sup> 2025

This assignment contributes to **40% of your final mark**.

It can be either **individual work** or **group work (max 4 students in a group)**.

The grading is independent of which option you choose (there is no preferred option on our side).

**If you do group work, make sure that each group member contribute substantially.** Please be sure to Fill in this [Form](#) to list the names of all the members in your group before the due date.

**The contribution of each group member should be spelled out clearly, either in the work itself, or in an attached file. Each group member must submit the work on Moodle (no group submission by a group representative).**

The task is simple:

*Pick some ideas from this course, and develop your own popular product based on it.*

You can pick the ideas you like the most.

The only requirement is that the ideas **should be related to quantum information, and should refer to topics presented in the lectures.**

It is completely up to you to choose which kind of popular product you produce:

- an educational video
- a graphic novel
- a poem
- a song
- a piece of music
- a piece of visual art
- a popular science article
- a short sci-fi novel
- ...

If you choose to do an artistic type of product, like a painting, a piece of music, or a poem, please attach a short description of how you used your art techniques to render the quantum ideas you wanted to express.

### Requirements and Important Remarks:

- Your “popular product” should be **accessible by non-specialists**.  
Like the lectures of this course: it should not require any knowledge that a layperson may not have. For example, if you want to mention a movie that you have seen, you should briefly summarize what the movie is about (do not expect that everyone has seen the same movies you have seen!).  
In the same way, if you want to mention a certain law of physics or a philosophical concept, you should briefly explain what the law/concept is, in a way that everyone can understand.
- Your popular project should be **connected with quantum information and with the ideas presented in this course**.

- You are required to append a **brief statement on the usage of AI** (e.g., "AI has been used to polish the text and correct grammar mistakes."). You are encouraged to use AI to improve the language or to initiate an idea. We will judge the originality based on the AI usage. Generating all or a significant part of the assignment is strictly forbidden.
- Please use the module, "Turnitin for Final Project" on Moodle, to check the similarity of your final project before uploading it to the "Final Project" module. When submitting to the "Final Project" module, ensure you **attach a Turnitin report** corresponding to the text of your final project. Please make sure that what you submit is **your own original work**. Plagiarism is a serious offence in general, and would be especially bad in this particular assignment, which is all about creativity and self-expression.

## Assessment Criteria

Our grading will take into account that this assignment permits a broad variety of different formats, and different media.

The general criteria we will look at are:

1. how well your product is **connected with the ideas of this course**. The ideas you have learnt should be nicely weaved into your product.
2. how **original** is your product. Creative ideas and critical thinking are appreciated.
3. how **accessible to laypeople** is your product. We will reward works that find nice ways to convey quantum ideas to non-experts, works that are easy to enjoy, novels that are intriguing, paintings that are striking, etc. **Use of multi-media formats is encouraged**.
4. **factually correct**. While this is a creative work, if you write a popular article or make an educational video you still need to pay attention to the correctness of your statements. Your popularization should not distort the actual science, or make false or misleading claims.

The grading scheme and assessment criteria are as follows:

- A: highly original and creative project, exciting to read/view/listen, and skilfully connected to the ideas of this course, showing creative thinking and ability to go beyond what was done in class. **No factual mistakes can be present in an A level project.**  
(A+: very original, very exciting, A-: overall very good, with some small room for improvement)
- B: good original project, enjoyable to read/view/listen, well connected to the ideas in this course, mostly following what was done in class. No factual mistakes can be present, although some minor uncertainties may be tolerated.  
(B+: good, and also showing some element of creativity, B-: good, but with some minor weakness)
- C: OK project, reasonable presentation, showing basic connections with the ideas of the course.  
(C+: more than OK, but still mostly limited to the basics, C-: OK, but with some factual misunderstandings)
- D: overall acceptable, but with some shortcomings in the presentation, or misunderstandings of the ideas in the course.