



British Physics Olympiad (BPhO) Computational Challenge

Promotional paragraph. AF. 19/12/2021

The majority of modern professions involve extensive use of computers to create, record and store information, and control machinery. Embedding of information technology is only likely to increase, and it is predicted that many future jobs currently performed by humans will be done much more efficiently and safely by robots / artificial intelligence. In this future, *wouldn't you want to be the person programming this technology?*

At the moment your Science experience is probably mostly theoretical problem solving, taking notes and performing lab experiments. However, professional scientists, engineers, financial analysts - basically anyone who uses physics and mathematics in their job - will spend most of their time on *data flow, data processing and information presentation*.

The **BPhO Computational Challenge** is a new course which will incentivize you to learn skills such as spreadsheets and computer programming that you will find very useful at University and beyond. The examples and contexts will also help you revise A-Level Physics and Mathematics.

The Challenge begins with **eleven weekly one-hour online seminars 1945-2045 on Thursday evenings, starting 13/01/22**. Course materials (slides, code, spreadsheets, homework problems, videos...) will be available from the BPhO website.

After the seminar course the 2022 Challenge will be released. Students will have between April to September to tackle various problems, which are graded at Bronze, Silver and Gold. Students can work individually or in pairs, and you can use any suitable software. To submit your entry, you will need to make a maximum two-minute unlisted YouTube ScreenCast, where you describe how you solved the Challenge.

Register your interest via this link to the BPhO website.