**Physics: Frontiers in Physics**

A residential course for AS and A2-level students

**This course sets out to inspire and challenge you in a non-competitive environment, mixing with like-minded students from across the UK and tutored by two subject experts. Participation can be acknowledged under *Preparation for HE* on your UCAS application form.**

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| **Objectives**   * + To inform about the nature of matter and how the universe works on the smallest scales   + To expand students’ experience and knowledge of nuclear and particle physics   + To give an introduction to the skills required to do physics on this scale   + To relate how practical nuclear physics is performed   + To provide an insight into what it means to be a research physicist |
| **Format**  A series of seminars, interactive lectures and practical workshops will be used to stimulate thought and discussion. Students will have the opportunity to work in groups to research and present their own ideas in formal and informal situations.  There will also be a guest speaker and a visit.  Please see the sample programme overleaf although course content may change. |
| **Tutors**  Sean Elvidge completed his PhD which involved investigating new techniques in ionospheric modelling at the University of Birmingham. He has a master’s degree in Mathematics.  Stuart Pirrie is studying for a PhD as a member of the Nuclear Physics Research Group at the University of Birmingham. His research area is in experimental low-energy physics. |
| **Details**  *Date:* **Monday 16 to Friday 20 December 2019**  *Venue:* **The Cambridge Centre at Villiers Park, Foxton**  *Ref:* **Physics: Frontiers in Physics – 20S008**  *Cost:* **£325 to include accommodation, meals, course materials (students at fee paying**  **schools will need to pay the full cost of £739)** |
| Please complete the application form and return to Villiers Park by **Applications are still open**  For more information contact us on 01223 872601 or vp@villierspark.org.uk  [www.villierspark.org.uk](http://www.villierspark.org.uk) |