

SCOPE OF THE New Particle Physics Symposium (NPPS) Europe-2013:

New Particle Physics Symposium (NPPS) Europe-2013 is our first international symposium in the high-energy Particle and Astro Particle Physics sciences series to be held at the prestigious Peterhouse (college) of the University of Cambridge, United Kingdom.

Particle physics is the study of the elemental building blocks that make up matter. These particles named such as quark, fermion, lepton and boson cannot be subdivided. These particles exist and interact within several unseen '*fields*' that permeate the universe. The field that generates mass for objects was named for UK Physicist Peter Higgs, who in the 1960s was one of the first scientists to put line a working theory on how elemental particles achieve mass. The existence of Higgs particle was first predicted in 1964 by three groups independently- Francois Englert and Robert Brout, Peter Higgs, and Gerald Guralnik, Carl Hagen, and Tom Kibble. Boson in general was named after the Indian mathematical physicist Satyendra Nath Bose, who together with Einstein, described their behavior. This theme meeting will focus on the fundamental constituents of matter and their interactions most importantly on the Higgs Bosons, Fermions, Leptons, quarks and other super symmetric particles. Both theoretical and experimental framework studies of CERN's Large Hadron Collider and ATLAS studies will also be discussed. Additionally, the importance of these fundamental particles with respect to astro physics and cosmology will be emphasized. The branch of particle physics and astro physics has attracted a much attention in recent years from both academic and industry laboratories, so we combined and grouped into 'New Particle Physics.'

In this international meeting, prominent researchers (theoretical and experimental physicists, organic, inorganic and physical chemists, materials scientists, electrical, electronic and computer engineers) from both academia and industry will gather and discuss the applications in form of keynote lectures, invited talks, short oral, and poster presentations.

Note: All the members (except keynote speakers) who participate in this symposium have to register for the meeting by paying the appropriate registration fee.

Venue: The Venue Peterhouse is the oldest College of the University of Cambridge, founded in 1284 and an institution dedicated to education and research. Some of the influential Petreans include: Henry Cavendish, Lord Kelvin, Sir Frank Whittle and Christopher Cockerill, and Nobel Laureates – Sir John Kendrew, Sir Aaron Klug, Archer Martin and Max Perutz , who gave a twentieth century lead in the field of Molecular Biology. Since many centuries it remained as a hub for innovation and successive generations of the brightest young people around the world. Please join for an intellectual gathering in the New Particle Physics arena at the prestigious college Peterhouse in the Premier University campus.