

# Frontiers of Physics

Breakthrough into physics, become part of the future

**21 November 2008** 1pm – 5.30pm

**Chadwick Lecture Theatre,  
University of Liverpool, Liverpool**

The target audience is practising physicists, researchers and university students drawn from across the north of England.

**22 November 2008** 10am – 3pm

**BT Convention Centre,  
Monarch's Quay, Liverpool**

The target audience is members of the general public with an interest in physics such as IOP members with a physics training who no longer practise in the field, physics teachers, sixth form or school students.

Chaired by Dame Jocelyn Bell Burnell, president of the Institute of Physics, Frontiers of Physics is two half day sessions aimed to present a picture of the forefront of physics, covering the latest developments and anticipating future breakthroughs in the field.

Frontiers of Physics is a complimentary event and open to all. Advanced registration is advised and can be booked at

[http://conferences.iop.org/Frontiers\\_Nov08/](http://conferences.iop.org/Frontiers_Nov08/). Enquiries can be made through Jon Mackew, e mail [jon.mackew@iop.org](mailto:jon.mackew@iop.org) or tel +44(0)207 270 4800.





# Proposed Programme

## Friday 21 November

**13:00 – 17:30 Chadwick Lecture Theatre,  
University of Liverpool**

- 13:00 Arrival and registration
- 13:30 Welcome and introduction – Dame Jocelyn Bell Burnell, President of IOP
- 13:45 Particle physics – Professor David Wark, Department of High Energy Physics, Imperial College
- 14:35 Astrophysics – Professor Michael Rowan-Robinson, Blackett Laboratory, Imperial College
- 15:25 Break for tea
- 15:45 Biophysics – Professor Athene Donald, Cavendish Laboratory, University of Cambridge
- 16:35 Fusion research – Professor Steven Cowley, Director of UKAEA Culham Division
- 17:25 Closing remarks – Dame Jocelyn Bell Burnell

## Saturday 22 November

The Saturday event takes place at Liverpool's brand new BT Convention Centre. There will be an hour break over lunchtime, which provides a great opportunity to see Liverpool's historic waterfront (lunch not provided). Directions to the venue can be found at <http://www.accliverpool.com/venue/findus/index.asp>

No registration is required for Saturday's event. Teachers may like to bring groups of sixth formers, and these and other large groups should be booked in advance through [louise.butcher@iop.org](mailto:louise.butcher@iop.org), or on 07919 035793.

**10:00 – 15:00 BT Convention Centre, Monarch's Quay,  
Liverpool**

- 10:00 Arrival
- 10:30 Introduction – Dame Jocelyn Bell Burnell, President of IOP
- 10:45 Particle physics – Professor David Wark, Department of High Energy Physics, Imperial College
- 11:30 Astrophysics – Professor Michael Rowan Robinson, Blackett Laboratory, Imperial College
- 12:15 Break for lunch
- 13:30 Biophysics – Professor Athene Donald, Cavendish Laboratory, University of Cambridge
- 14:15 Fusion research – Professor Stephen Cowley, Director of UKAEA Culham Division
- 15:00 Close