

IOP Institute of Physics



Science & Technology Facilities Council
Particle Physics Department

Dalitz Institute, Oxford Theory Subdepartment

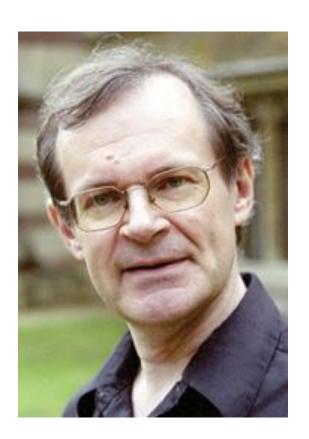
BOOST 2010 Giving new physics a boost...

22 - 25 June, Oxford, UK

Welcome from the Department



Prof Roger Davies Chairman of Physics



Prof. Brian Foster Head of PP Subdepartment

Local Organisation

- Organizing Committee
- A. Carslaw (IT support)
 - J. Ferrando
 - S. Geddes (Admin head)
 - C. Issever
 - M. Karagoz (Chair)
 - J. March-Russell
 - A. Sherstnev

Many thanks!

- Admin & IT Support
- Laura Nevay
 Kim Proudfoot
- Stig Topp-Jorgensen
 Chris Hunter
- Student helpers
- Ryan Buckingham Adrian Lewis Sarah Livermore
 Katie Oliver

Advisory Committee: Many thanks!

- J. Butterworth (UCL)
 - R. Chierici (CNRS/IPN Lyon)
 - A. de Roeck (CERN)
 - N. Glover (IPPP Durham)
 - A. Haas (SLAC)
 - C. Shepherd-Themistocleous (RAL)
 - T. Tait (UC Irvine)
 - J. Thaler (MIT)
 - M. Vos (IFIC Valencia)
 - J. Wacker (SLAC)

Hertford College



- Workshop hosting college
 - many thanks to Prof. Robin Devenish
 - Welcome reception
 - (Tuesday, 6-7pm)
- Workshop dinner with pre-drinks
 - (Wednesday, 6:45-10:00pm)

A: DWB B: Hertford

Prof. Robin Devenish
Dean of Hertford

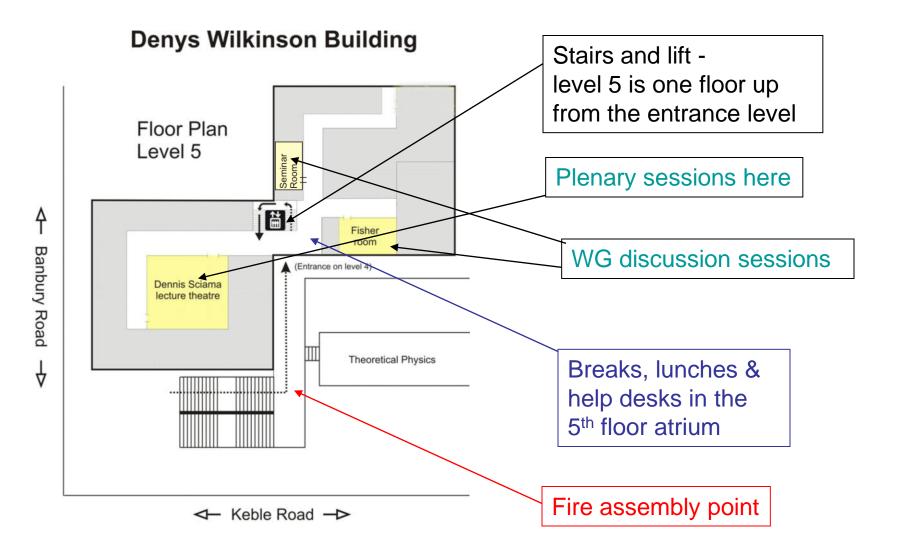
Practical Matters

- DWB Reception on 4th floor open 8:30am-5:00pm
 - Disabled access on 3rd floor, north face of DWB
- Registration Desk: DWB 5th floor
- Admin: DWB 6th floor
- Common Room: DWB 5th floor
 - Tea, coffee = 10:00am-4:20pm
 - Lunch = 12:00-1:30pm
- Restrooms: DWB 3rd (gentlemen), 4th and 6th floors
- Please wear your badge at all times. You will need it to access to
 - DWB Physics building & Hertford College

Meeting Venues

- Plenary sessions:
 - Dennis Sciama Lecture Theatre: 8:00-8:00 Tues Fri
- Working group/discussion sessions (all on 5th floor):
 - Seminar room: Lepton WG, 8:00-8:00 Tues Fri
 - Fisher room: Hadronic WG, 8:00-8:00 Tues -Fri except for 11:00 a.m.-13:00 p.m on Wed (hadronic WG discussion will be in Dennis Sciama building)
- Dalitz Theory Institute fish tank behind 4th floor reception: also available for use during the day

DWB 5th floor plan



Local Attractions

- Museums:
 - Pitt Rivers & National History
 - Ashmolean, ...
- University and Colleges:
 - Radcliffe Camera
 - Bodleian Library
 - Christ Church College
 - Magdalen College, ...
- Recreational:
 - University Parks
 - Punting (near Magdalen College)
 - Walk to Trout (Port Meadow)



pubs near OxfordOX13RH, UK



The Eagle and Child 🕝 😭 - more into » 49 Saint Giles, Oxford OX1 3LU -

01865 302 925

This place has unverified edits. ★★★★☆ 57 reviews

"The fam and I visited the Bird and Brat last summer and found the food ..."



Royal Oak 🔻 🖈 - more info »



42-44 Woodstock Road, Oxford OX2 6HT - 01865 310 187

Category: Pubs, Bars & Inns This place has unverified edits.

★★★☆☆ 17 reviews

"Lots of nice variations on seating, interesting furniture and plenty of ..."



_amb & Flag 🕝 🌣 - more info »



12 Saint Giles, Oxford OX1 3JS -01865 515 787

This place has unverified edits. ★★★★ 45 reviews

"and friendly former coaching inn serves a good range of real ales and ..."

**** 138 reviews



The Turf Tavern 💌 😭 - more into »



7 Holywell Street, Oxford OX1 3SU -01865 243 235 Category: Pubs, Bars & Inns

"A regular stop whenever I'm in this town, a big selection of cask ales, ..."



Duke Of Cambridge T : nore info »



5-6 Little Clarendon Street, Oxford OX1 2HP - 01865 558 173 Category: Pubs, Bars & Inns ★★★★☆ 11 reviews

"This does mean that the place gets very busy at these times, but if you ..."



Angels 💌 🗯 - more info »



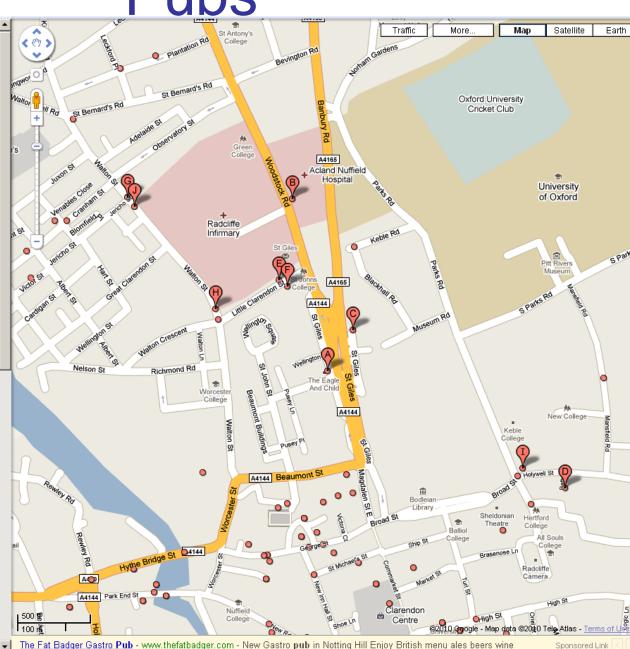
Dartington House, 55 Little Clarendon Street, Oxford OX1 2HS -01865 554 224 Category: Pubs, Bars & Inns

"We had a great time trying out their huge drink menuwith no regrets because ..."



Jericho Tavern 💌 🖈 - more into »

56 Walton Street, Oxford, Oxfordshire OX2 6AE - 01865 311 775



Sponsored Link

A Few Announcements

- Wireless available in the building (registration pack for details)
- Workshop photo on Thursday (possibly right after the morning plenary session)
 - Congregate on the walkway outside the front door.
- 2 terminals will be available in Fisher room.
- Let us know if you have special needs and we will help.

Boost2010 Overview & Objectives

 Topics include: boosted tops ("t-tagging"), Higgs, W, and Z bosons, "lepton jets",

Aim:

- Bring together theorists and experimentalists to study physics behind boosted signatures, how to detect them and which tools to use
- Better understanding of what measurements need to be made this year and their efficient feedback to theorists
- Common tools/standards to increase efficiency in comparing various algorithms in the market to better evaluate their effectiveness
- Better understanding of how well experiments can utilize and calibrate such tools given their specific detectors
- A wiki is in place for information sharing: https://atlaswiki.physics.ox.ac.uk/bin/view/Boost2010

Programme Overview

- Tuesday:
 - Morning: introductory talks
 - Afternoon: first data results
- Wednesday: Boosted signatures overviews
 - Morning: experimental results/prospects
 - Afternoon: BSM models signatures
- Thursday: Subject talks
 - Morning: W/Z and tops (mostly) hadronic
 - Afternoon: Higgs and leptonic
- Friday:
 - Morning: summaries from WG conveners and final discussion

Working Groups

- WG Conveners:
 - Leptonic:
 - Theory: Jay Wacker (SLAC)
 - Experiment: Chris Hill (CMS, Univ. Bristol)
 - Hadronic:
 - Theory: Michael Spannowsky (Univ. Oregon)
 - Experiment: Marcel Vos (ATLAS, IFIC Valencia)
- Aim is to initiate/continue work towards achieving the objectives
- Discussion sessions are set for WG. All day work is possible, of course.:)
- End of workshop summaries from conveners on Friday morning
 - May have daily reports as well, TBS...
- Proceedings: TBS (no more than 20 pages).

Brand-new results in time for Boost2010!

- Just to mention a few...
- Experiments:
 - CDF jets and tops
 - D0 W/Z+jets
 - A last-minute nice surprise from CMS!
- Theory:
 - Freshly finished papers (most will be presented on Thursday) and ongoing work
- A few theory papers are already linked on boost2010 Wiki:
 - https://atlaswiki.physics.ox.ac.uk/bin/view/Boost2010

Looking forward to a fruitful workshop!

Thanks for coming! Welcome & Enjoy!

