



CMS/IPPP Senior Experimental Fellowship meeting on Dark Matter Bristol – 8-10 December 2014



Welcome to Bristol!



The plan for the next 2 days

- Agenda is here: <https://conference.ippp.dur.ac.uk/event/429/>
- Hope for lots of discussion guided by some slides/material
- Let me know if you don't have eduroam and need wifi access!
- On Wed morning we are in the Old Council Chamber of the Wills Memorial Building

GO TO C

Monday, 8 December 2014

14:00 - 17:30

Higgs Portal Models

Conveners: Dr. Jim Brooke (Bristol), Sarah Malik (Imperial College), Henning Flaecher (University of Bristol)

Location: 8-10 Berkeley Square (G10/11)

14:00 **Lessons learned from reinterpretation of CMS Higgs to invisible search 45'**

Speakers: Dr. Jim Brooke (Bristol), Dominic Smith (University of Bristol)

14:45 **gg fusion mono-jet and multijet + met constraints on Hinv 45'**








Speaker: Sarah Malik (Imperial College)

15:30 **Tea/Coffee 30'**




16:00 **Simplified Models for Hinv searches/Higgs portal models 1h30'**

Speaker: Prof. Valentin V Khoze (IPPP)

Tuesday, 9 December 2014

- 09:00 - 10:30 **Simplified Models for Dark Matter** 
Conveners: Oliver Buchmueller (Imperial College), Prof. Valentin V Khoze (IPPP), Sarah Malik (Imperial College), Dr. Emanuele Re (IPPP, Durham University), Philip Harris (CERN)
- 09:00 **Scalar, pseudo-scalar and other simplified models for DM searches 1h25'** 
Speakers: Ciaran Williams (IPPP), Dorival Goncalves (IPPP Durham), Philip Harris (CERN)
- 10:30 - 11:00 **Tea/Coffee**
- 11:00 - 12:30 **Tools for Simplified Model production** 
Conveners: Ciaran Williams (IPPP), Oliver Buchmueller (Imperial College), Prof. Valentin V Khoze (IPPP), Philip Harris (CERN), Emanuele Re (University of Oxford)
- 11:00 **Tools for SM production: MCGM, POWHEG etc. 1h30'** 
Speakers: Dr. Emanuele Re (IPPP, Durham University), Ciaran Williams (IPPP), Philip Harris (CERN)
- 12:30 - 14:00 **Lunch**
- 14:00 - 17:30 **Complementarity: Collider DM searches but also direct/indirect searches** 
Conveners: Bjoern Penning (Imperial College), Sarah Malik (Imperial College)
- 14:00 **Complementarity between different collider signatures 1h30'** 
15:30 **Tea/Coffee 30'**
16:00 **Complementarity between experiments 1h20'** 

Wednesday, 10 December 2014

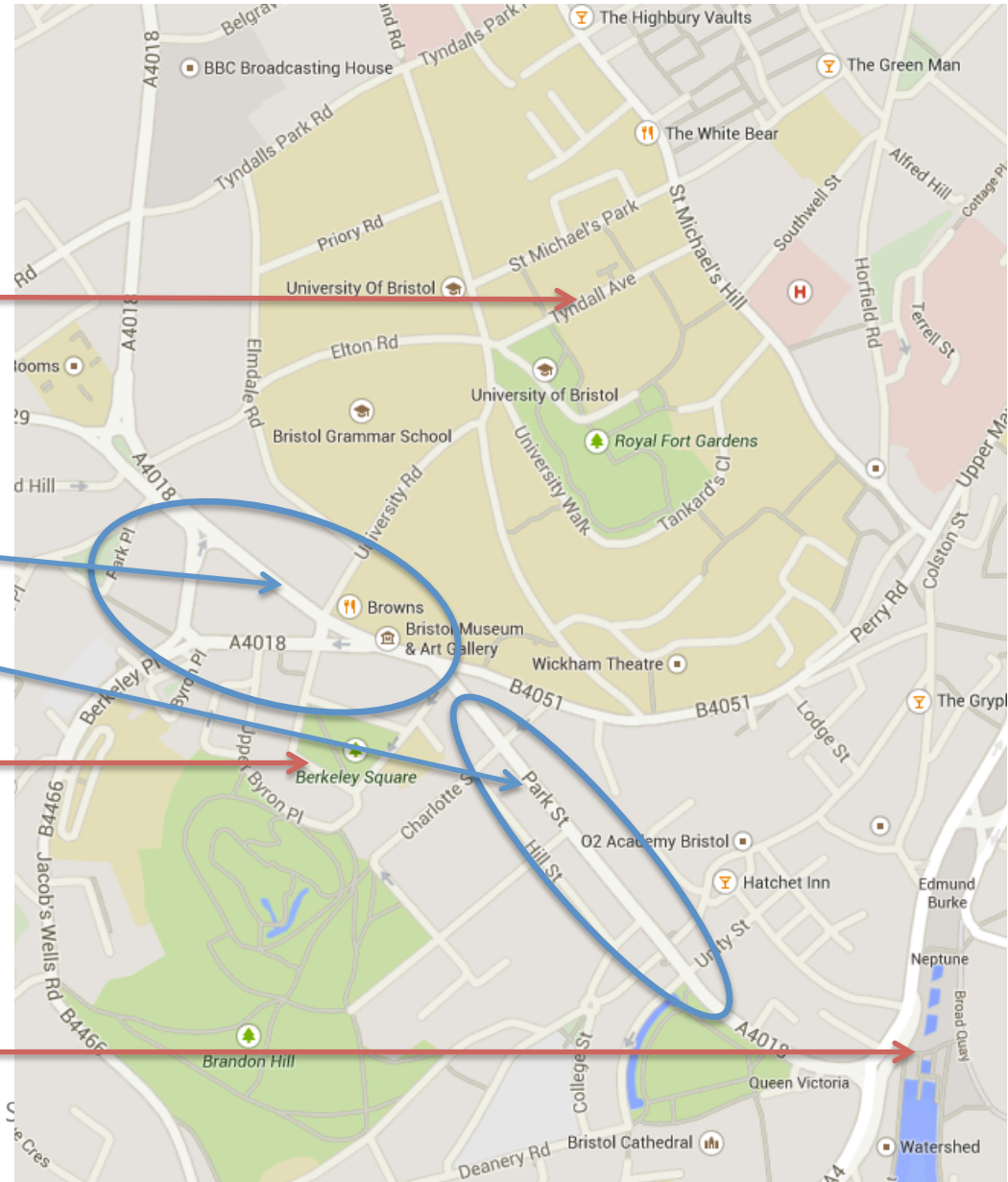
- 09:00 - 12:30 **New Ideas for DM searches and interpretations** 
Conveners: Bjoern Penning (Imperial College), Christopher McCabe (GRAPPA, University of Amsterdam), Prof. Valentin V Khoze (IPPP), Oliver Buchmueller (Imperial College)
Location: Wills Memorial Building (1.11 The Old Council Chamber)
- 09:00 **Multi-component DM / boosted objects incl. bosons / asymmetric DM 1h30'** 
10:30 **Tea/Coffee 30'**
11:00 **Light mass mediators / determining DM couplings at LHC / compatibility of galactic centre excess with popular BSM models 1h30'** 

Some practicalities (i.e. lunch)

Café's, Restaurants, Shops etc.
on Clifton Triangle
and Park Street

you are here

City centre/harbour

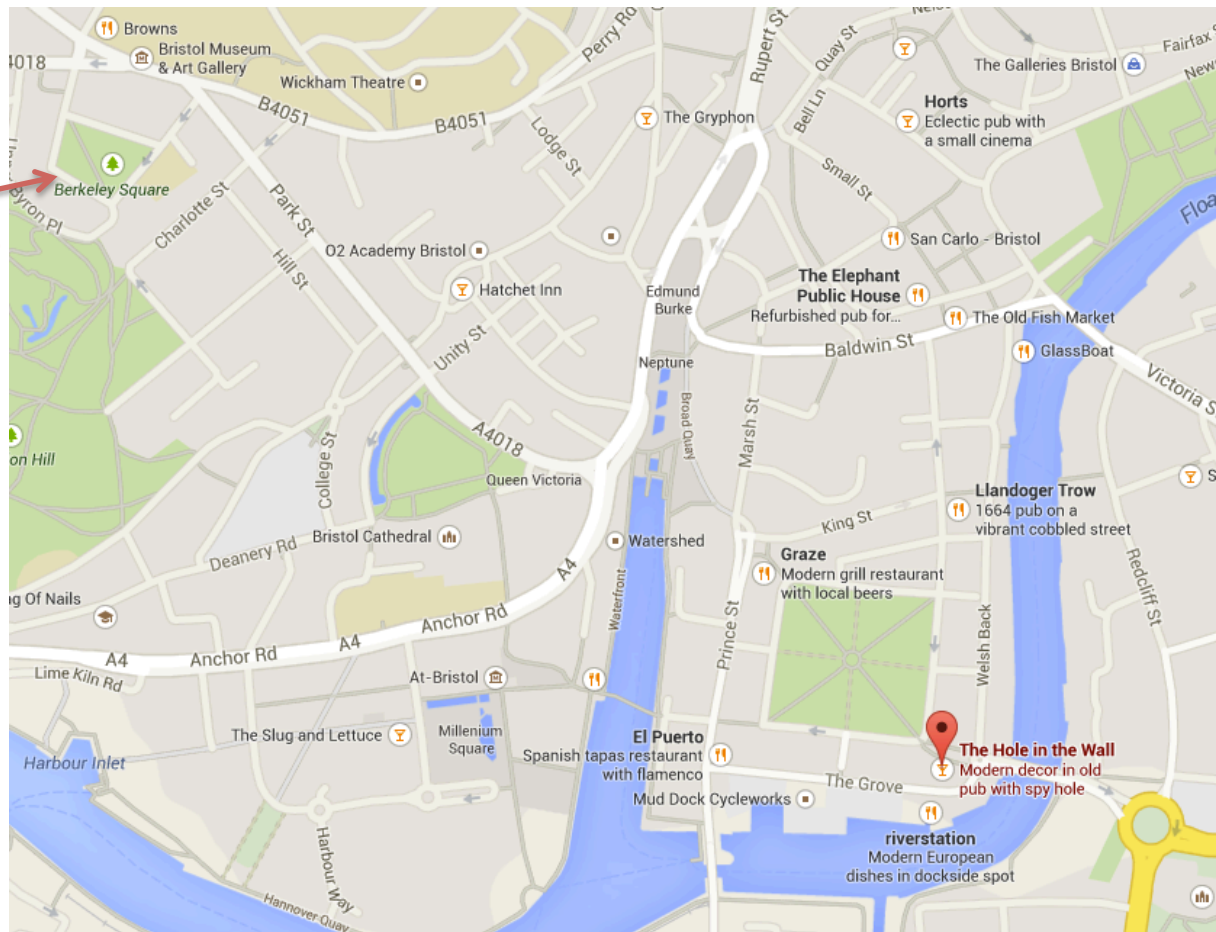


Dinner tonight

- 8:30pm at The Hole in the Wall
- **Address:** 2 The Grove, Queens Square, Bristol, BS1 4QZ
- **Telephone:** 0117 926 5967
- <http://www.theholeinthewallbristol.co.uk/findus/>

abt 15-20min
walk from here

you are here



Bavarian



Beerhouse

Jägermeister

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