

DARK MATTER

DETECTION

DIRECT



INTERPRETATIONS

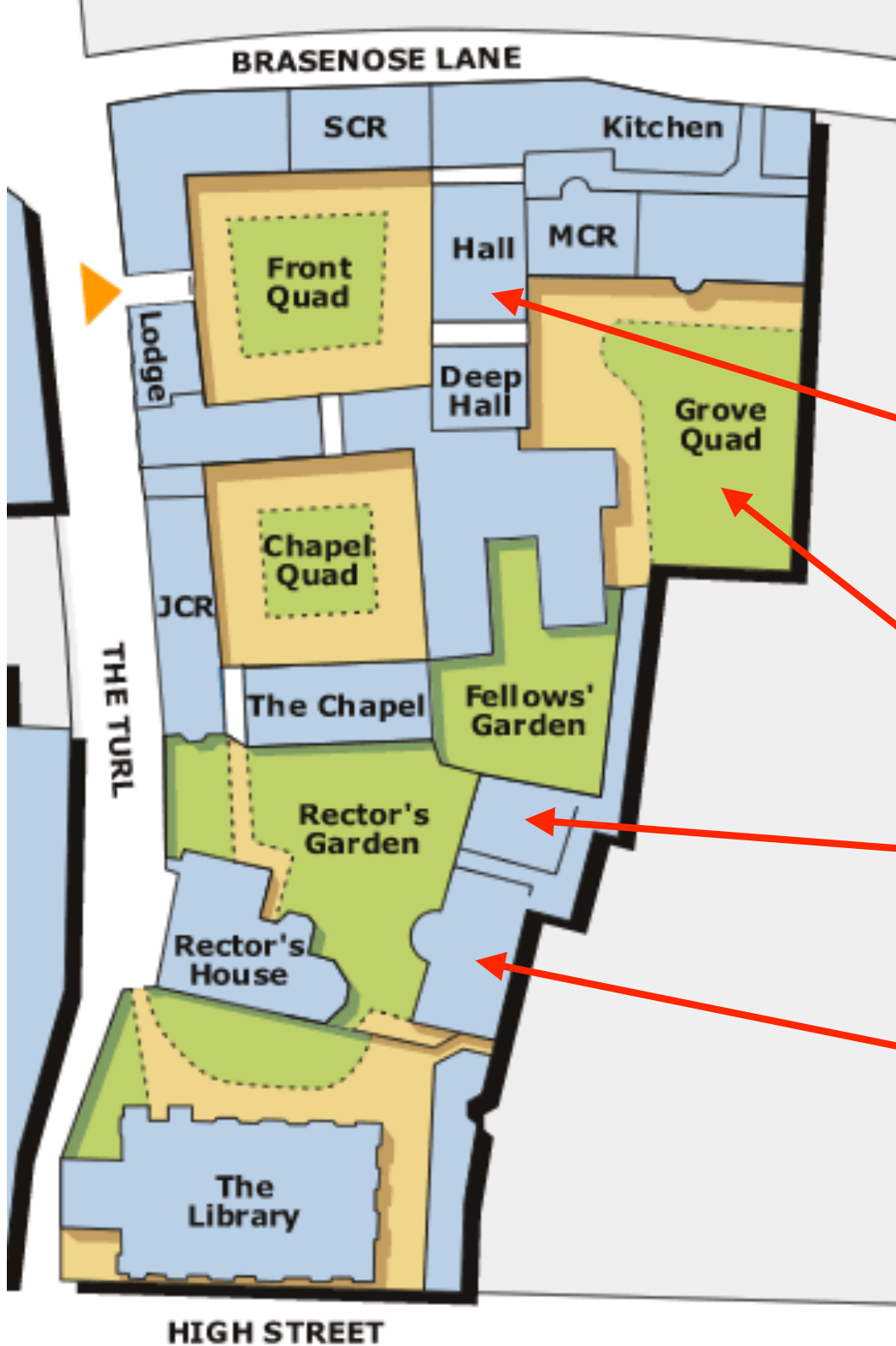
WELCOME TO LINCOLN COLLEGE!



PRACTICALITIES

- Toilets:
 - Downstairs (in the basement)
- Internet:
 - Eduroam: first/best option
 - Oxford Wireless Lan (OWL): passwords available
- Lunch:
 - Hot meal, cafeteria-style, in the Hall
- Reception + Dinner:
 - Meet for a drink in
 - Dinner in the Hall
- Speakers:
 - Post your slides in advance of the talks!!

LINCOLN MAP



Hall

Lunch & Dinner

Grove Quad

Drinks reception @ 19:00

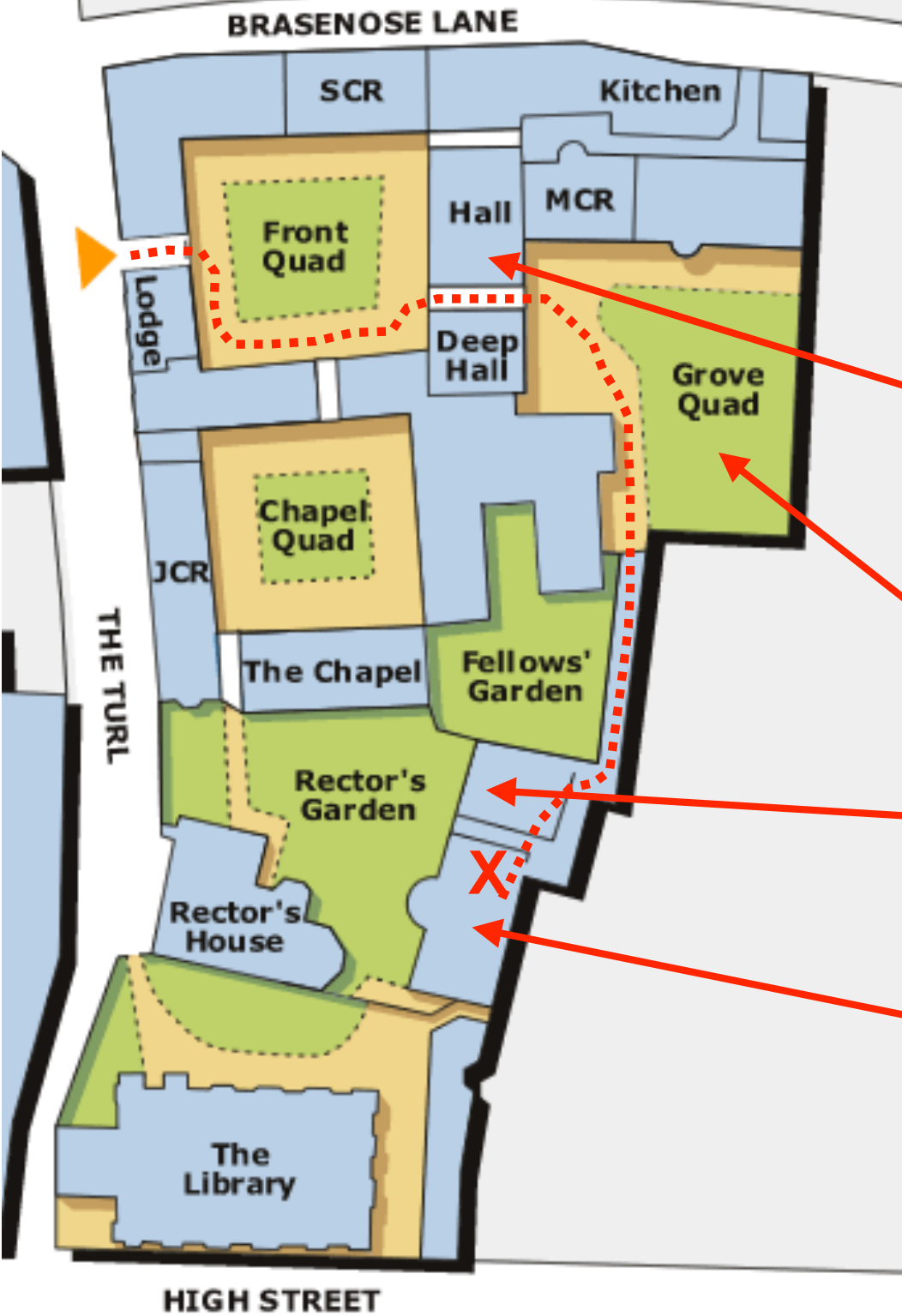
Langford Room (Garden Buildings)

Coffee/Tea

Oakeshott Room (Garden Buildings)

Main meeting

LINCOLN MAP



Hall
Lunch & Dinner

Grove Quad
Drinks reception @ 19:00

Langford Room (Garden Buildings)
Coffee/Tea

Oakeshott Room (Garden Buildings)
Main meeting

Dark Matter Interpretations for Direct Detection

9 August 2016
Lincoln College, Oxford

WET timezone

Overview

Scientific Programme

Call for Abstracts

[View my Abstracts](#)

[Submit Abstract](#)

Timetable

Registration

[Modify my Registration](#)

Participant List

Sponsors

Travel Information

Dark Matter Interpretations for Direct Detection will be held at Lincoln College, Oxford on August 9, 2016. The workshop will focus on the recent use of Effective Field Theories and Simplified Models to characterise non-relativistic, momentum-dependent interactions of dark matter in direct detection experiments. In addition we plan to discuss the uncertainties introduced by these new techniques, the underpinning theoretical and astrophysical assumptions, and how each of these influence the final dark matter interpretation.

The Workshop is supported by:



Starts 9 Aug 2016 08:00
Ends 9 Aug 2016 21:45
WET



Lincoln College, Oxford



Worm, Steven
Beltrame, Paolo
Cerdeño, David G.
İşsever, Çiğdem



No material yet



Morning Session - (09:30-12:30)

time	title	presenter
09:30	Welcome/Intro	
09:50	SuperCDMS @ EFT	CERDEÑO, David G.
10:20	Non-relativistic effective theory approach to dark matter direct detection	CATENA, Riccardo
10:50	(coffee)	
11:20	An Effective Field Theory Analysis of the LUX Dark Matter Search	LARSEN, Nicole
11:50	Renormalization group effects in Dark Matter direct detection	BISHARA, Fady

Afternoon Session - (13:30-17:50)

time	title	presenter
13:30	Dark matter effective field theory scattering in the XE100 detector	ITAY, Ran
14:00	Prospects for dark matter detection with inelastic transitions of xenon	MCCABE, Christopher
14:30	Leading corrections to spin-independent WIMP scattering off nuclei	MENÉNDEZ, Javier
15:00	(coffee)	
15:30	EFT/simplified models	HAISCH, Uli
16:00	Impact of astrophysical uncertainties on WIMP direct detection	GREEN, Anne
16:30	Quantifying compatibility among WIMP direct search data in a halo-independent way	HUH, Ji-haeng
17:00	Dark Matter Detectors and the Neutrino Wall	FAIRBAIRN, Malcolm
17:30	closeout/discussion	