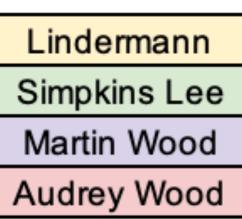


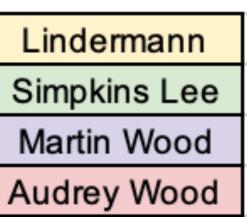


## Workshop schedule



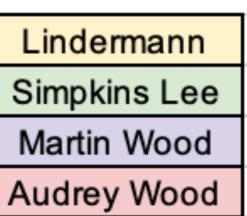
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13.01		13.01 14.01		15.01		16.01		17.01	
Mond	day	7	Гuesday	W	ednesday	Т	Thursday		day
		Hands-On Deep Learning with PyTorch I	Morning Discussions	Hands-On Bayesian Optimization with BoTorch I	Morning Discussions	Hands-On LASY	THRILL Contributed Session I	Bus to CLF (de	parture at 9:00)
A nowin	volo	Т	ea Break	Т	ea Break	Te	ea Break		> \/:a:+
Arrivals		Hands-On Deep Learning with PyTorch II	Automation	Optimization	Trends in LPA Ion Automation	Hands-On Compressed Sensing	THRILL Contributed Session II	EPA	VISIL
A mixed a and Degistration		Lu		Lunch Break		Lunch Break		Lunch	at CLF
Allivais allu	rtegistiation							Bus back to O	xford (back by
Greetings &	Introduction					Vincent Deo (	Subaru Telescope)	14:30)	30)
Alec Thomas		Ryan Roussel		Matt Hill (LLNL)   Jeffrey Kelling (HZDR)		Dimitris Papadopoulos (APOLLON)   Marko Von der Leyen (Oxford)			
Vincent E	Bagnoud	(LMU)							
Tea E	Break	Т	ea Break	Tea Break		Tea Break		1	
Sunny Howard (Oxford / LMU)   Archis Joglekar (U Michigan)		•	Chetanya Jain (LBNL)   Andreas Maier		Kathryn Baker (ISIS)		THRILL Contributed Session III	Departures	
			` <i>'</i>	Panel discussion		THRILL Discussion Panel			
Poster S	Session								
1 Inofficial meeting at Pubs aroun			erence Dinner	Inofficial mee	eting at Pubs around	Inofficial meeting	g at Pubs around		
	Arrivals and Greetings & Alec Tr Vincent E Tea E Sunny Howard ( Archis Jogleka	Vincent Bagnoud Tea Break  Sunny Howard (Oxford / LMU)   Archis Joglekar (U Michigan)  Poster Session	Arrivals  Arrivals and Registration  Greetings & Introduction Alec Thomas  Vincent Bagnoud  Tea Break  Tea Break  Tounny Howard (Oxford / LMU) I Archis Joglekar (U Michigan)  Poster Session  Confe	Arrivals  Arrivals and Registration  Greetings & Introduction Alec Thomas  Vincent Bagnoud  Tea Break  Vincent Bagnoud  Tea Break  Cunny Howard (Oxford / LMU)   Archis Joglekar (U Michigan)  Poster Session  Deep Learning with PyTorch II  Trends in LPA Electron Automation  Ryan Roussel (SLAC)   Chris Eberle (LMU)  Chetanya Jain (LBNL)   Andreas Maier (DESY)  Panel discussion  Conference Dinner	Arrivals  Arrivals and Registration  Greetings & Introduction Alec Thomas  Vincent Bagnoud  Tea Break  Tea Break  Ryan Roussel (SLAC)   Chris Eberle (LMU)  Archis Joglekar (U Michigan)  Poster Session  Arrivals  Moming Discussions  Moming Discussions  Worning Discussions  Bayesian  Optimization  With RoTorch II  Automation  Prends in LPA Electron  Bayesian  Optimization  With RoTorch II  Automation  Prends in LPA Electron  Bayesian  Optimization  With RoTorch II  Chris Eberle (LMU)  Matt Hill (LLNL)  Archis Joglekar (U Michigan)  Panel discussion  Conference Dinner	Arrivals  Arrivals and Registration  Greetings & Introduction Alec Thomas  Vincent Bagnoud  Tea Break  Tea Break  Tea Break  Ryan Roussel (SLAC)   Chris Eberle (LMU)  Archis Joglekar (U Michigan)  Archis Joglekar (U Michigan)  Poster Session  Arrivals  Arr	Arrivals  Arriva	Arrivals  Arriva	Arrivals and Registration  Arrivals and Registration  Greetings & Introduction Alec Thomas  Vincent Bagnoud  Tea Break  Tea Break  Tea Break  Lunch

# Workshop schedule | Plenaries



					riadicy rioda	
	13.01 14.01		15.01	16.01	17.01	
	Monday	Tuesday	Wednesday	Thursday	Friday	
10						
11	Arrivals  Different	Hands-On Deep Learning with PyTorch II rooms (follow signs)				
		Coms (follow signs)	Those are the	wante wa etraam		
13	Arrivals and Registration	Lunch Break	These are the events we strear		Lundrat CLF	
	Allivais and Registration				Bus back to Oxford (back by	
14	Greetings & Introduction			Vincent Deo (Subaru Telescope)	14:30)	
	Alec Thomas	Ryan Roussel (SLAC)   Chris Eberle	Matt Hill (LLNL)   Jeffrey Kelling (HZDR)	Dimitris Papadopoulos (APOLLON)		
15	Vincent Bagnoud	(LMU)		Marko Von der Leyen (Oxford)		
	Tea Break	Tea Break	Tea Break	Tea Break		
16	Sunny Howard (Oxford / LMU)   Archis Joglekar (U Michigan)	Chetanya Jain (LBNL)   Andreas Maier (DESY)	Kathryn Baker (ISIS)	MLST THRILL Contributed Perspective Session III	Departures	
17	Archis Jogiekar (O Michigari)	(DLST)	Denot discussion	TUDII I. Discussion Donal		
		Panel discussion	Panel discussion	THRILL Discussion Panel		
18						
19						
20	30 r	ninutes talk + 15 r	ninutes for discus	sion: ask questic	ons!	
21						

### Workshop schedule | Poster session



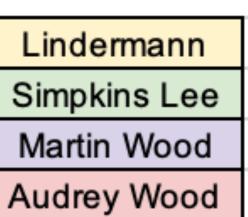
Tuesday  Hands-On Deep Learning Morning Discussions with PyTorch I  Tea Break	Wednesday  Hands-On Bayesian Optimization  Morning Discussions	Thursday  Hands-On THRILL Contributed	17.01 Friday  Bus to CLF (departure at 9:00
Hands-On Deep Learning Morning Discussions with PyTorch I	Hands-On Bayesian Optimization  Morning Discussions	Hands-On THRILL Contributed	
	p vour posters		
(Simpkins Lee Roo	m, next to coffee break / re	egistration)	
	Lunch Break  Ryan Roussel (SLAC)   Chris Eberle (LMU)  Tea Break  Chetanya Jain (LBNL)   Andreas Maier (DESY)  Taimesto set u	Ryan Roussel (SLAC)   Chris Eberle (LMU)  Tea Break  Chetanya Jain (LBNL)   Andreas Maier (DESY)  Time to set up your posters (Simpkins Lee Room, next to coffee break / realization of the control of th	Ryan Roussel (SLAC)   Chris Eberle (LMU)  Tea Break  Chetanya Jain (LBNL)   Andreas Maier (DESY)  Time to set up your posters (Simpkins Lee Room, next to coffee break / registration)

## Workshop schedule | Tutorials

Lindermann
Simpkins Lee
Martin Wood
Audrey Wood

	13.01 14.01		15.01		16.01	17.01		
	Monday	Т	uesday	We	ednesday	Т	hursday	Friday
10		Hands-On Deep Learning with PyTorch I	Morning Discussions	Hands-On Bayesian Optimization with BoTorch I	Morning Discussions	Hands-On LASY	THRILL Contributed Session I	Bus to CLF (departure at 9:00)
11	AIIIVAIS	Hands-On Deep Learning with PyTorch II		Hands-On Bayesian Optimization with BoTorch II		Hands-On Compressed Sensing	THRILL Contributed Session II	ELWO A1911
13	Next to registration Greetings & Introduction Alec Thomas	Registration						Bus back to Oxford (back by 14:30)
15		Available form						
16			Opens	Closes				
17		On-site Participatio	n 1 Aug 2024, 00:00	15 Nov 2024, 2	23:59 🚨 111	check details		
18		Remote Participation	on 1 Dec 2024, 00:00	12 Jan 2025, 2	3:59 <b>এ</b> 57	Register		
19		Tutorial Registratio	n 1 Dec 2024, 00:00	13 Jan 2025, 2	3:59	Register		
20					eting at Pubs around	Inofficial meeting		

## Workshop schedule | Contributed Talks



								ridaioj rioca
	13.01 14.01		15.01			16.01	17.01 <b>Friday</b>	
	Monday	Tuesday		Wednesday		Thursday		
9		h De wit					THRILL Contributed Session I	Bus to CLF (departure at 9
1							ea Break	
			Trends in LPA Electron Automation	Hands-On Bayesian Optimization with BoTorch II	Trends in LPA Ion Automation	Hands-On Compressed Sensing	THRILL Contributed Session II	EFAC VISIL
							ea Break	
6							THRILL Contributed Session III	Departures
7								
8								
9								
20								

# Workshop schedule | Discussions



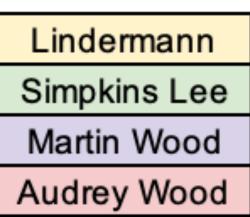
9	Monday	Hands-On Deep Learning	14.01 Fuesday		15.01 ednesday		16.01 <b>Thursday</b>	17.01 <b>Friday</b>
10	Monday	Hands-On	Гuesday		ednesday		Thursday	Friday
10							_	
10			Morning Discussions	Hands-On Bayesian Optimization	Morning Discussions	Н	THRILL Contributed Session I	Bus to CLF (departure at 9:00
			ea Break	with BoTorch L	ea Break			
11								
13								
14								
15								
16			(LBNL)   Andreas Maier (DESY)	Kathry		Pe		
17		Pan	el discussion	Pan	el discussion	THRILL	Discussion Panel	
18								
19								
20 21 Inof								

## Workshop schedule | Discussions

(Mostly) Tuesday	Laser	Experiment	Facility
Diagnostics			
Feedback, Tuning & Optimization			
Control System Interfaces			
Storage & Data Access			

(Mostly) Wednesday

# Workshop schedule | Special Issue



		•		T	Addley Wood	
	13.01	14.01	15.01	16.01	17.01	
	Monday	Tuesday	Wednesday	Thursday	Friday	
10		Hands-On Deep Learning Morning Discussions with PyTorch I	Hands-On Bayesian Optimization with BoTorch I	Hands-On LASY THRILL Contributed Session I	Bus to CLF (departure at 9:00)	
11	Arrivals	Hands-On Deep Learning with PyTorch II  Trends in LPA Electron Automation	Hands-On Bayesian Trends in LPA Ion Optimization Automation with BoTorch II	Hands-On Compressed Sensing  THRILL Contributed Session II	EPAC Visit	
13	Arrivals and Registration	Lunch Break	Lunch Break	Lunch Break	Lunch at CLF	
	Anivais and Registration				Bus back to Oxford (back by	
14	Greetings & Introduction  Alec Thomas	Ryan Roussel (SLAC)   Chris Eberle	Matt Hill (LLNL)   Jeffrey Kelling (HZDR)	Vincent Deo (Subaru Telescope)   Dimitris Papadopoulos (APOLLON)	14:30)	
15		(LMU)		Marko Von der Leyen (Oxford)		
		Tea Break	Tea Break	Tea Break		
16		Chetanya Jain (LBNL)   Andreas Maier (DESY)	Kathryn Baker (ISIS)	MLST Perspective  HRILL Contributed Session III	Departures	
17		Panel discussion	Panel discussion	THRILL Discussion Panel		
18						
	Poster Session					
19						
20						
21	Inofficial meeting at Pubs aroun		Inofficial meeting at Pubs around	Inofficial meeting at Pubs around		



2023
IMPACT FACTOR
6.3

2023 CiteScore 9.1 OPEN ACCESS

Call for papers – submission site opening soon

### Focus on Intelligent Systems in Laser, Plasma and Accelerator Physics

The confluence of artificial intelligence with laser, plasma, and accelerator physics is transforming how we operate large-scale physics facilities and advance our understanding of fundamental physics. As these facilities become more sophisticated, traditional control and optimization approaches are reaching their limits.

We aim to showcase how AI is revolutionizing facility operations, experimental design, and computer simulations in these fields. This ranges from automated control systems that maintain laser beam stability to computer models that predict complex plasma behavior. The field is advancing quickly, with new methods emerging that combine physical understanding with data-driven approaches to make experiments more efficient and reliable.

We welcome contributions across the spectrum of machine learning applications in these facilities, including control and automation, experimental design and optimization, smart diagnostics and data analysis, Al-enhanced simulations, predictive maintenance, digital facility models, real-time feedback systems, and physics-informed Al approaches. Of particular interest are works that demonstrate practical applications or theoretical advances in using Al to enhance research and operations in these interconnected fields.

### **Guest Editors**

Andreas Döpp LMU Munich, Germany
Jeyan Thiyagalingam Science and Technology Facilities Council (STFC), UK
Ryan Roussel SLAC National Accelerator Laboratory, USA

**SUBMISSION DEADLINE:** 30<sup>th</sup> June 2025



Kyle Cranmer

**Editor in Chief** 

University of
Wisconsin-Madison,
USA

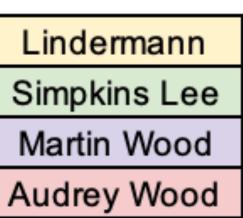


SCIENCE IS OUR ONLY SHAREHOLDER



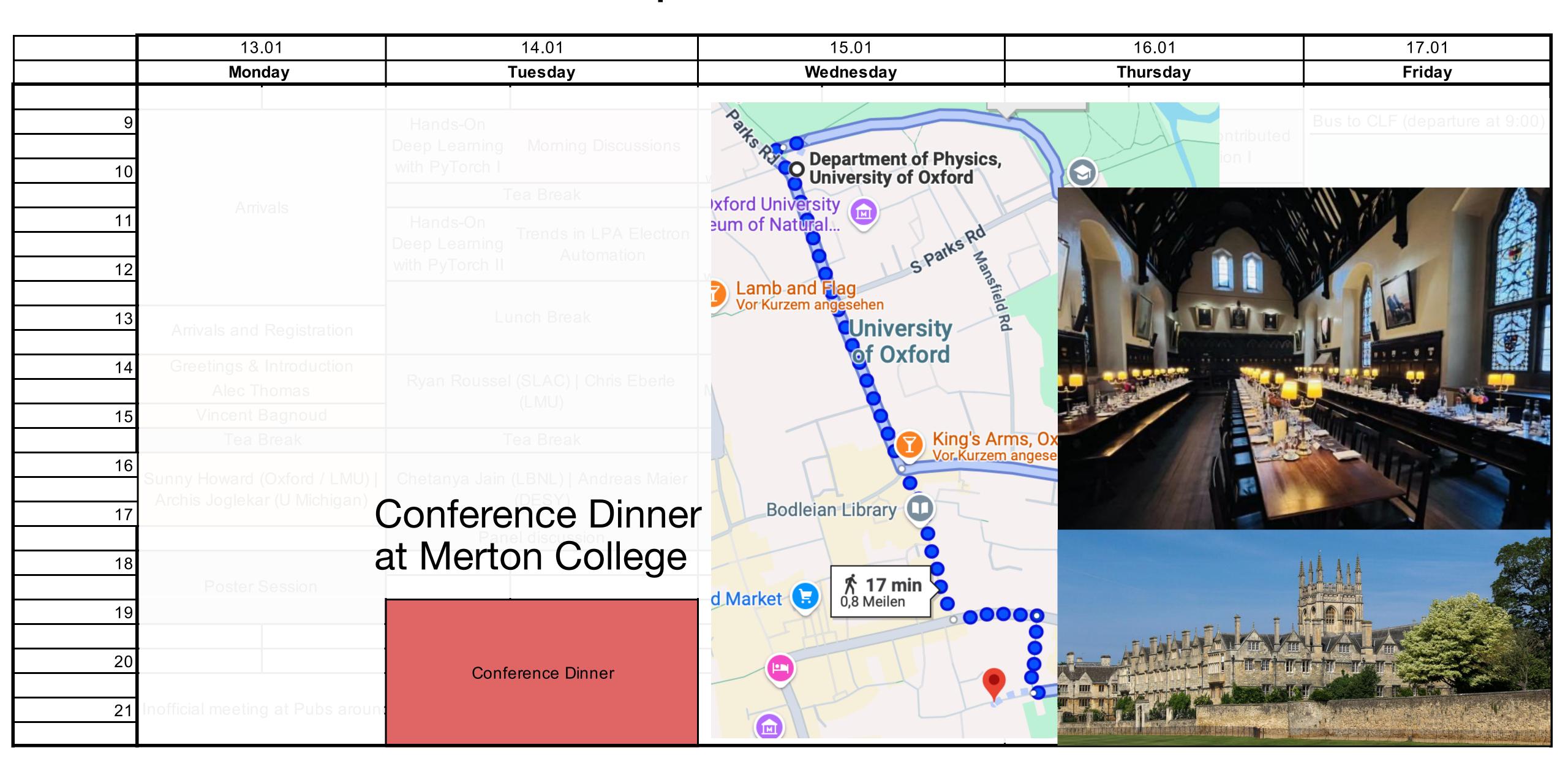
Scan for more information

# Workshop schedule Breaks



					Audrey Wood
	13.01	14.01	15.01	16.01	17.01
	Monday -	Tuesday	Wednesday	Thursday	Friday
10					
	A rrivale	Tea Break	Tea Break	Tea Break	
11	TAYLORS	Hands-On Deep Learning with PyTorch II Trends in LPA Electron Automation	Hands-On Bayesian Trends in LPA Ion Optimization Automation with BoTorch II	Hands-On Compressed Sensing THRILL Contributed Session II	EPAC Visit
13	TAYLO  TAYLO  Filmoni India  EE/RAT  ELLY OF  Corb. Up.  Corb. Up.	Lunch Break	Lunch Break	Lunch Break	Lunch at CLF
705	PLATOSES PLATOSES				Bus back to Oxford (back by
14	VIIICEIII DAUIIUU				
	Tea Break	Tea Break	Tea Break	Tea Break	
	y Howard (Oxford / LMU)	Chetanya Jain (LBNL)   Andreas Maier	Kathryn Baker (ISIS)	MLST THRILL Contributed Perspective Session III	Departures
17	Simpkins Lee Foyer  Panel discussion  All Hext to Martin Wood Lecture Hall-Red Discussion Panel  Simpkins Lee Foyer				
18					
19					
20					
21 Inoffic					

### Workshop schedule | Official dinner



### Workshop schedule

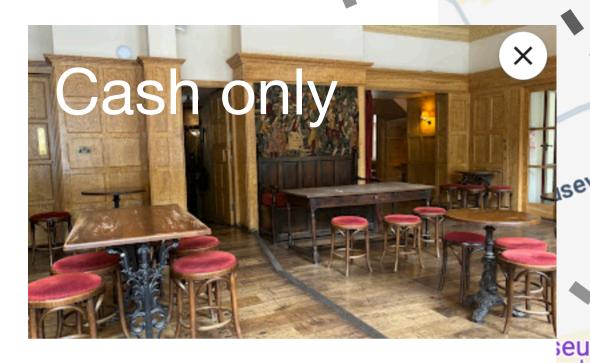
	13.01	14.01			
	Monday	Tuesday			
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10			4,3 ★★★		
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21 Inofficial meeting at Pubs aroun



### Royal Oak

★★★ (1.148) (i) • 10-20 £



#### Lamb and Flag

Inofficial meeting at Pubs around

4,4 ★★★★★ (1.057) () • 1–10 £

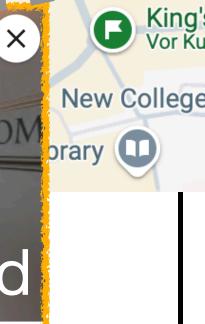


Keble Rd Rd

Lamb and Flag

The Royal Oak
Vor Kurzem angesehen

King's Arms Inofficial meeting a 4,2 ★★★★★ (2.047) ① •10-30 £



University

of Oxford

Wadhan Vor Kurzer

Medical Teachir

Sherrington Rd

Rhodes House Am besten bewertet



### Enjoy the workshop!

