

## **JAI-Fest 2017**

*University of Oxford, Department of Physics,  
Dennis Sciama Theatre, Denis Wilkinson Building, Keble Road  
Oxford OX1 3RH  
Thursday 7<sup>th</sup> of December 2017*

**Arrival, registration and coffee: 8:45 - 9:15 coffee/tea/biscuit**

**Welcome 9:15 – 9:30**

**Andrey Seryi: OxU, JAI:**

*“Welcome and brief JAI updates”*

**Chair: Ryan Bodenstein**

**1/ Stephen Gibson: RHUL, JAI:**

*“Recent developments for the High Luminosity Large Hadron Collider”* 9:30 – 9:50

**2/ Frank Van den Heuvel: OxU, Oncology:**

*“Charged particle therapy, will any old accelerator do?”* 9:50 – 10:10

**3/ Lucy Martin: OxU, JAI:**

*“High intensity beam studies with a linear Paul trap”* 10:10 – 10:30

**4/ Rebecca Ramjiawan: OxU, JAI:**

*“Latest results on nanobeam stabilisation at ATF2”* 10:30 - 10:50

**5/ Stuart Mangles: ICL, JAI:**

*“Probing matter under extreme conditions using X-rays from a laser wakefield accelerator”* 10:50 - 11:10

**Break 11:10 -11:30**

**Chair: Stuart Mangles**

6/ **Graeme Burt:** Lancaster University/CI:

*“The Dielectric and THz acceleration programme (DATA) at Cockcroft Institute”* 11:30 – 11:50

7/ **Savio Rosario:** ICL, JAI:

*“Laser wakefield acceleration in a heterogenous plasma”:* 11:50 - 12:10

8/ **Leon van Riesen-Haupt:** OxU, JAI:

*“Optics Challenges for the High Energy LHC”:* 12:10 - 12:30

9/ **Oliver Ettlinger:** ICL, JAI:

*“Density bunching effects in a laser-driven, near critical density plasma for ion acceleration”:* 12:30 – 12:50

10/ **Swann Levasseur:** RHUL & JAI:

*“First beam tests at the CERN PS of a rest gas ionisation profile monitor based on a hybrid pixel detector”:*  
12:50 – 13:10

**Lunch 13:10 – 14:00**

**Chair: Suzanne Sheehy**

11/ **Niki Vitoratou:** RHUL & JAI:

*“Energy measurements using Resonant Spin Depolarisation in Diamond Light Source”* 14:00 – 14:20

12/ **Robert Shalloo:** OxU, JAI:

*“Low-density indestructible waveguides for high-repetition-rate laser plasma accelerators”* 14:20 – 14:40

13/ **Christopher Arran:** OxU, JAI:

*“Resonant Excitation of Plasma Wakefields”* 14:40 – 15:00

14/ **Kostya Lekomtsev:** RHUL, JAI:

*“Corrugated mm-scale capillary as compact accelerator and beam diagnostics tool”* 15:00 - 15:20

15/ **Paul Andreas Walker:** DESY, Germany:

*“Eupraxia: A light source based on plasma acceleration”* 15:20 - 15:40

**Break 15:40 – 16:00**

**Chair: Ivan Konoplev**

16/ **Ryan Bodenstein:** OxU, JAI:

*“Luminosity tuning studies for CLIC”*

16:00 – 16:20

17/ **Ian Martin:** Diamond, RAL, STFC:

*“Diamond Upgrade R&D Activities”*

16:20 – 16:40

18/ **Peter Williams:** CLARA, Daresbury Laboratory, STFC:

*“CLARA: The UK’s FEL test facility”*

16:40 – 17:00

19/ **Arkadiy Simonov:** University of Freiburg, Germany:

*“New frontiers in structural science opened by synchrotrons and X-ray FELs”*

17:00 - 17:20

***Final remarks and discussion 17:20-18:00***

**18:00 - 21:00 - Reception in the foyer and discussion in The Royal Oak**

**Finding parking around appears to be a really convoluted process, if not impossible.**

**So please avoid bringing a car.**